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The

CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3182
VOL. CXXXIV

FEBRUARY 1, 1941

Annual Subscription (with
Diary) 25/- Single Copies 9d.

The
**NICEST WAY
OF TAKING
HALIBUT
LIVER OIL**

HALIBORANGE

TRADE MARK

ALLEN & HANBURY'S

THE CHEMISTS

TELEPHONE:
BISHOPSGATE 3201 (12 Lines).
 TELEGRAMS
"GREENBURYS, BETH, LONDON"



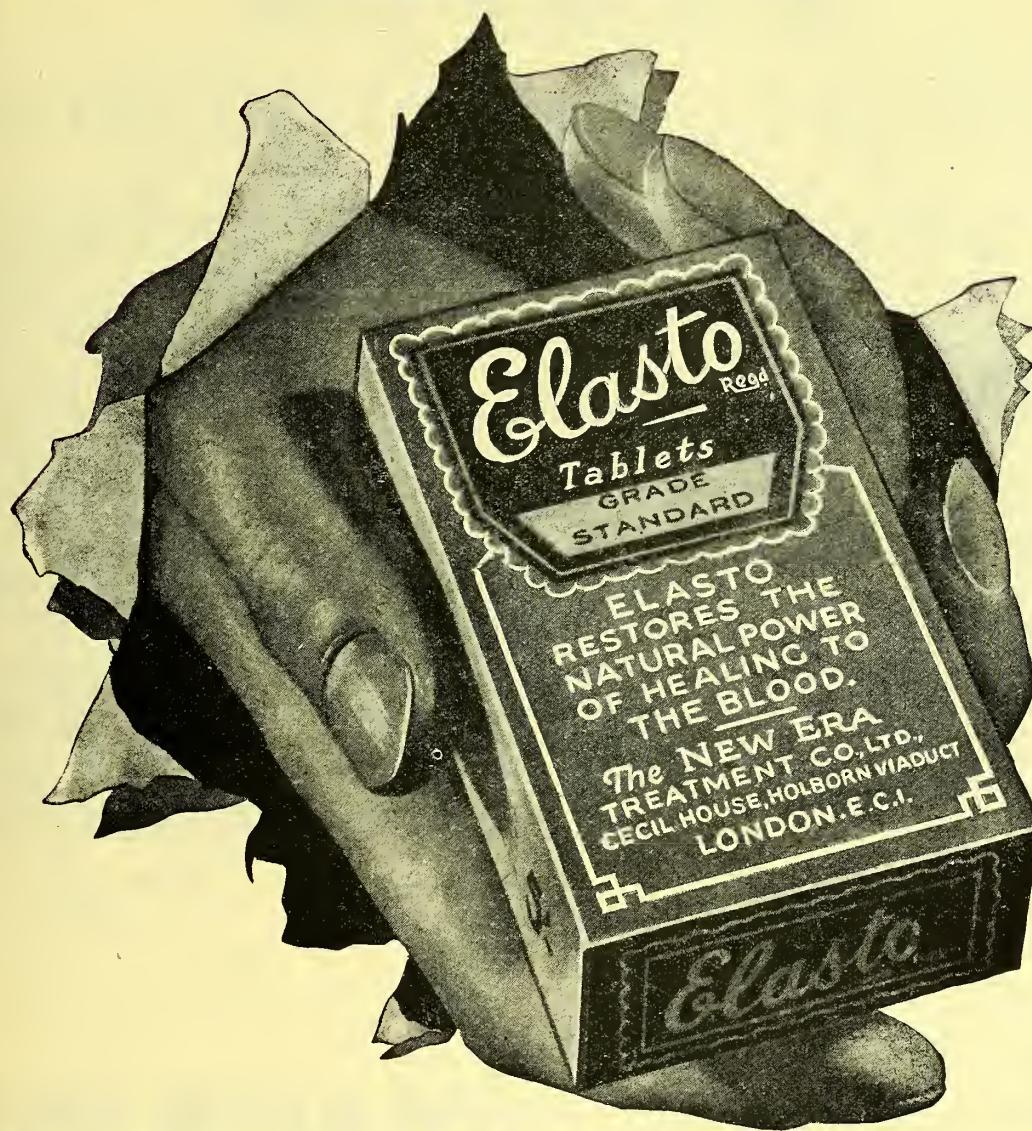
●
Send for
Bonus Terms

Because of the security it confers in respect of protected price and assured profit, Euthymol is a sound line from which you can secure good and profitable business. It has been on the P.A.T.A. for over 30 years and *has no sixpenny size.*

PARKE, DAVIS & CO., 50 BEAK ST., LONDON, W.1

Show 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line



**ONE SHILLING AND THREEPENCE PROFIT
ON EVERY SALE**

'Elasto' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for: Varicose Veins, Bad Leg, Phlebitis, Piles, Hardened Arteries, Heart Troubles, Rheumatism, Bad Circulation, etc. A tablet Remedy, easy to handle and reliable.

Retail Price 5/- per pkt. Wholesale 45/- per doz.

Subject to Purchase Tax 7½d.

Subject to Purchase Tax 7½d.

SHOW MATERIAL GLADLY SENT FREE ON REQUEST

P.A.T.A.

The NEW ERA TREATMENT CO. LTD.

DEPT. R

CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.I.

PROVED SECURITY FOR WINDOWS



SHATTERED WINDOWS

Numerous authenticated cases have established that there is no better protection against blast, suction, or earth tremor caused by high explosive than the 'Security' Window-Brace. A glance at the above photograph, representative of many, is convincing.

SAFEGUARDS TRADE. The 'Security' Window-Brace has been adopted by Austin Reed, Salmon & Gluckstein, Dunns the Hatters, Co-operative Societies, and very many other retailers for whom window display is an all-important sales factor. Moreover, it protects stock and protects the public.

FITTED AT SHORT NOTICE. The 'Security' Window-Brace gives balanced, controlled support with full, compensating pull in all directions, and thus permits the greatest 'flex' of the glass. It is neat and does not interfere with window display, and can be fitted at short notice. Order now, but insist upon it being a 'Security.'

Pollards, the leading Shopfitters, after testing many types, now recommend and fit only the 'Security' Window-Brace.

Full particulars, with further evidence, will be forwarded on application.

Branch of a well-known hatters in a South London Suburb. Although windows to right and left were shattered, its windows were saved by the 'Security' Window-Brace.

'SECURITY' WINDOW-BRACE

Patent Applications Nos. 25845/39, 30868/39, 32122/39, 243/40.

Avoid imitations

Manufactured by WINDOW BRACE LIMITED,

11 BUCKINGHAM ST., LONDON, W.C.2 • TEMple Bar 0058/9

AGENTS EVERYWHERE

Safeguard their Health—



**BIG SALES ASSURED when you
recommend these Crookes products
to prevent infection and illness
IN AIR-RAID SHELTERS**

Radio and newspapers are emphasising the absolute necessity of safeguarding against disease in shelters this winter. And the public realise this fact too! Below are listed remedies and prophylactics for four common dangers to public health in air-raid shelters. They will prove big and steady sellers if you recommend them. Write today for details, including generous bonus terms and extra war savings certificate bonus scheme.

CROOKES' HALIBUT OIL

A safeguard against diseases arising from vitamin deficiency due to scrappy, inadequate and irregular shelter meals. It is 80 times richer in Vitamin A and 30 times richer in Vitamin D than good cod liver oil. Specially suitable for children since it is administered as 'a drop instead of a spoonful.'



CROOKES' COLLOTONE

A reliable reconstituent with very rapid action, Crookes' Collotone is a pleasantly flavoured haematinic for general use and in the treatment of debility and depression of nervous origin.



CROOKES' BROMOFORM CO.

An insistent cough will keep the sufferer—and those who happen to be near him—awake all night. Crookes' Collosol Bromoform Co. gives almost immediate relief and ensures a good night's rest. Most valuable in whooping cough and bronchial affections.



CROOKES' IODINE AND BLACKCURRANT PASTILLES

An effective and palatable method of preventing and remedying affections of the mouth and throat. Because each pastille contains Collosol Iodine (1/10th of a grain) full therapeutic effects are produced. Speci-ally valuable for children, who like the flavour.



THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10
Telephone: Willesden 6313 (5 lines)

Telegrams: Collosols, Harles, London



Now that the national life is becoming adjusted to air-raids, more and more people are adopting the wise precaution of keeping handy a supply of Bob Martin's Fit and Hysteria Powders, the new A.R.P. sedative for dogs and cats. This means that the powders are already in regular demand among a large proportion of the public and in the nature

of things a steady increase in sales will follow.

National press advertising has drawn the attention of the public to the powders as an essential item of A.R.P. Dealers can help further by showing the Fit and Hysteria Powders display material, and copies of the free booklet "Your Dog and Cat in Wartime"— both supplied readily on application to



BOB MARTIN LTD., SOUTHPORT, LANCs.

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RENDELLS

PRODUCTS

for Feminine Hygiene

W·J·RENDELL LTD.

HARDWICK HOUSE, 161-5 ROSEBURY AVENUE · LONDON · E.C.I.

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7 VITAMIN PRODUCTS OF GLAXO LABORATORIES

NOW FREED FROM PURCHASE TAX

A and D	ADEXOLIN Capsules, 6,000 i.u.A ; 1,000 i.u.D, 25, 2/- ; 100, 6/- ; 500, 24/- ; 1,000 45/-. Liquid, 1 cc., 12,000 i.u.A ; 2,000 i.u.D, ½ oz. 2/- ; 2 oz. 6/- ; 4 oz. 10/- ; 8 oz. 18/-. Emulsion, 1 fl. oz. 18,000 i.u.A ; 3,000 i.u.D. 4 oz. 1/6 ; 8 oz. 2/6 ; 80 oz. 16/-.	D	OSTELIN VITAMIN D Liquid, 1 cc., 5,000 i.u. ½ oz. 2/6 ; 2 oz. 7/6 ; 4 oz. 12/6 ; 8 oz. 22/6. Emulsion, 1 fl. oz. 3,000 i.u. 8 oz. 2/6 ; 80 oz. 16/-. *	K	KAPILON Vitamin K analogue (methyl naphthoquinone) Ampoules, 1 cc., 5 mg. 6 x 1 cc., 7/6. Liquid, 10 mg. per cc., ½ oz. 3/-. *
A B C and D	DEKADEXOLIN Ampoules, 1 cc., 60,000 i.u.A ; 10,000 i.u.D. 6 x 1 cc., 7/6 ; 12 x 1 cc., 12/6 ; 50 x 1 cc., 35/-		HIGH POTENCY OSTELIN Tablets, 50,000 i.u.D, 25, 5/- ; 100, 17/6	E	VITEOLIN Capsules, (3 m.) contain 6 mg. tocopherol (vitamin E) 25, 6/- ; 100, 21/- ; 500, 80/-
					Still liable to Purchase Tax Vitaminised glucose is also now tax free, but only if containing "no other drug or medicament." GlucoDin contains calcium and phosphorus, and thus ranks above the plain vitaminised product both as a quality pharmacy line and as a product of therapeutic value. It therefore remains taxable. * Ostelin Tablets ; Kapilon Tablets ; Prepalin (high Vitamin A concentrate) Capsules, Liquid and Ampoules ; Permidin (Vitamin P) Tablets ; and Pelonin (Nicotinic Acid) all remain liable to Purchase Tax.
					Have you applied for your tax refund on Adexolin and Ostromalt?

BUSINESS TO SHARE

Ucal has at its command :

- ★ Experience
- ★ Trained personnel
- ★ Up-to-the minute research facilities
- ★ Big buying capacity

which enables Products of real merit to be created and sold at the right prices.

Ucal Products are made for an educated and discerning public.

It will pay you to feature Ucal Products and get more of the better class trade.

No competition from Stores, Grocers, Co-ops.



UNITED CHEMISTS ASSOCIATION LTD.
CHELTENHAM

RAZOR BLADE FAMINE IN THREE MONTHS!

—SAYS PRESS



Make up your profits on Dry Shavers

REMEMBER, no American shavers can now be imported. Only with the British Made Hanley A.C. Dry Shaver can you make up profits threatened by the shortage of razor blades.

The Hanley A.C. is for alternating current only and is available for voltages 200-220 and 230-250. Its two-way shearing head of stainless steel is self-cleaning and self-sharpening and simplest of all to manipulate. Supplied in zipp-fastening travelling purse, complete with flex and adaptor. Guaranteed for One Year. Immediate delivery. Liberal discounts. Being British made there will be no difficulty about spare parts should they be needed at a later date.

E. SIEGRIST (Dept. 17), 39 BERNERS ST., LONDON, W.I

'Phone: Museum 0032



Still THE BIGGEST VALUE
IN DENTURE CLEANSERS
—and sales increasing regularly

SANIDENT

Regd.

With "SANIDENT" you offer your customers the biggest value in perborate denture cleansers. Its quality is unsurpassed—and in quantity it is unequalled. "First sales," on your recommendation, ensure regular demand. That is why "SANIDENT" sales continue to increase every month!

In addition, many dentists now recommend "SANIDENT" to their patients.

NOTE: There is a profit of 6d. to the chemist on every bottle
Prices: Trade 12/- per doz. Retail 1/6 per bottle including Purchase Tax

Every assistance in sales aids is given to the stockist of Sanident. Various show material is available as required.

THORNTON & ROSS LTD., LINTHWAITE, HUDDERSFIELD

TR87

*There will always be
an insistent demand for*

SHERLEY'S DOG PREPARATIONS



Despite the abnormal conditions prevailing, there will always be an insistent demand for Sherley's Dog Preparations as they are recognised by Owners everywhere as the True Standard of Excellence. It would therefore be wise to stock your shelves to capacity so as not to run the risk of disappointing regular customers. We, on our part, will continue to support retailers to the utmost, and maintain the fullest supplies possible.

STOCK YOUR SHELVES with Sherley's Tonic and Condition Powders
 Sherley's Worm Medicines Sherley's Aperient Powders
 Sherley's Skincure Sherley's Canker Lotion and Powder Sherley's
 Fit Tablets Sherley's Veterinary Ointment Sherley's Formalin
 Soap Lactol Lactol Biscuits Sherley's Dog and Cat Books

FREE DISPLAY MATERIAL. Bold, attractive Display Cards for counter and window are supplied to all Sherley stockists, free and post free.

A. F. SHERLEY & CO. LTD., Marshalsea Road, London, S.E.1.

EXTRA DISCOUNT

In addition to our already generous terms, which include discounts of $2\frac{1}{2}$ per cent. and 5 per cent. for window display and provide a very high rate of profit for the Trade, we are now offering an extra $2\frac{1}{2}$ per cent. settlement discount for cash within thirty days of the date of invoice.

Elastoplast

TRADE MARK BRAND

FIRST-AID DRESSINGS

The most advertised
First-Aid line

T.J. SMITH & NEPHEW, LTD.

NEPTUNE ST., HULL

RUBBER

PRODUCTS

CONDOMS

BRITISH THROUGHOUT

IN SILK AND IVORY FINISH, LOOSE ROLLED
16/6 per gross net. Minimum quantities 5 gross lots.

GENERAL LATEX LIMITED
802 Oxford Avenue, Trading Estate, SLOUGH
Telephone 43221

THIS HOT WATER BOTTLE IS ALWAYS WARM



- ★ Ensures constant warmth for Invalids.
- ★ Keeps beds always aired.
- ★ Avoids successive fillings of hot water.
- ★ Can even be left on for weeks with perfect safety.
- ★ Saves its own cost over and over again.

Very few homes are without the ordinary hot water bottle, so just imagine the immense market that awaits the SUPREME MIRACLE with its practically everlasting heat. It fits most rubber bottles and only consumes one unit of electricity during 100 hours. Particularly invaluable for air raid shelters. Retails at 13/9 plus purchase tax, not including water bottle. Generous trade discount. Write for details TODAY.

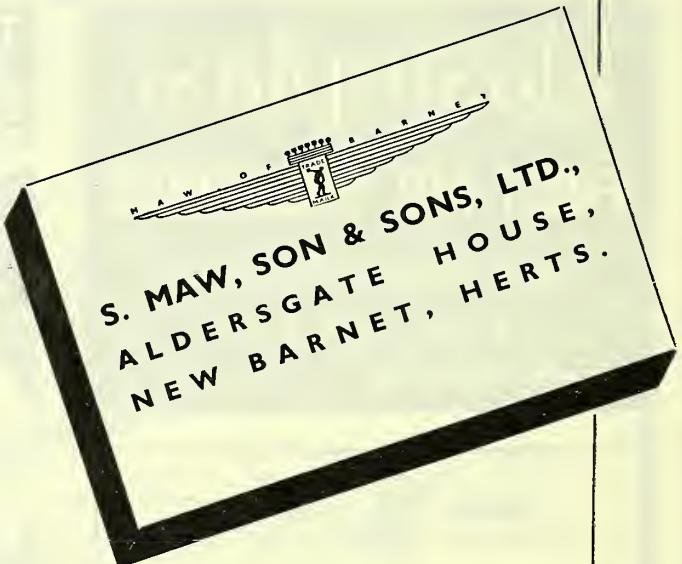
See advts. in *B.M.J.* and *Lancet*

L. G. HAWKINS & Co. Ltd.
30-35 Drury Lane, London, W.C.2
Phone: Temple Bar 5811

THE
"SUPREME"
MIRACLE
THE NEW IDEA IN
WATER BOTTLES

Maw's Surgical Dressings for 1941

- CONSISTENT STANDARD QUALITY
- DISTINCTIVE PACK AND BRAND REPUTATION
- TERMS CONFORM TO TRADE AGREEMENT
- ALTERNATIVE ANNUAL DISCOUNT OR SPOT INVOICE DISCOUNT
- GOOD STOCKS—PROMPT DELIVERIES
- ACTUAL MANUFACTURERS OF REPUTE



TELEPHONE: BARNET 5555

TELEGRAMS: ELEVEN BARNET

You cannot buy better! You cannot buy cheaper!

Acme Garden Aids

- A RANGE YOU CAN SELL, FREE OF PURCHASE TAX, FREE OF LIMOSO, WITH EARLY DELIVERIES OF GOOD SUPPLIES.
- INDEPENDENT RETAIL CHEMISTS ARE PROVIDED WITH A SPLENDID SALES OPPORTUNITY WHEN SUPPLIES OF MANY LINES ARE SO SHORT.
- THE USE OF FERTILISERS IS ADVOCATED IN TALKS SPONSORED BY THE GOVERNMENT AND THE B.B.C.
- THERE ARE MODEST AND ATTRACTIVE PARCELS FOR YOUR INITIAL STOCK.
- THESE ARE SELECTED BY EXPERTS AND EXTRA DISCOUNTS ARE AVAILABLE ON THEM.
- WE OFFER A COMPLETE RANGE OF ACME GARDEN AIDS, AS SUCCESSFULLY MARKETED BY THE ACME CHEMICAL CO., OF TONBRIDGE.
- ACME GARDEN AIDS ARE REGULARLY ADVERTISED IN GARDENING JOURNALS.
- CHEMISTS GET A GOOD PROFIT ON THEM.
- ALMOST EVERY MEMBER OF THE PUBLIC IS A POTENTIAL CUSTOMER.
- PARTICULARS FROM THE MAW REPRESENTATIVE, OR FROM THE HOUSE DIRECT.
- THERE ARE NOTES FOR YOUR OWN GUIDANCE (WRITTEN BY AN EXPERT) AND THERE ARE COUNTER BOOKLETS (LIMITED QUANTITIES) TO PARCEL BUYERS.

WE ARE SOLE DISTRIBUTORS OF ACME
GARDEN AIDS FOR THE CHEMIST TRADE

S. MAW, SON & SONS, LTD.
ALDERSGATE HOUSE, CROMER ROAD, NEW BARNET,
HERTFORDSHIRE

*They're looking for it
in YOUR SHOP!*



*A TAMPAX display
sends PROFITS soaring!*

The more you *display* Tampax the more you sell. Once women know they can get it in your shop you've got an assured regular demand. (Many Tampax customers have evacuated from their home towns and are settling into new areas. That's a *special* opportunity for the Tampax dealer). Tampax—compact and handy with an attractive pack and a lightning turnover—is the ideal show line: doesn't want much house room: doesn't gather dust on your shelves: makes a good show in your window and on your counter: gives you a useful profit on every sale.



TRADE TERMS. P.A.T.A. PRICES

★ PACKETS OF 10	Wholesale 13/6 DOZ.	Retail 1/6 PACKET
★ PACKETS OF 6	Wholesale 9/- DOZ.	Retail 1/- PACKET
★ PACKETS OF 3	Wholesale 4/6 DOZ.	Retail 6d. PACKET

Manufactured in England by Tampax Ltd., Belvue Rd., Northolt, Middx.
Sole Distributors : SPLENDOR LTD., 5 Beastmarket Hill, Nottingham,
and 7c Lower Belgrave Street, London, S.W.1

TABLET MACHINES

MODERN DESIGN

TYPE "M" 100 Tablets per min. Up to $\frac{5}{8}$ in. dia.
TYPE "L" 100 Tablets per min. Up to $\frac{1}{2}$ in. dia.
TYPE "O" Ophthalmic. Up to $\frac{1}{4}$ in dia.

ALSO

The "ECLIPSE"

COUNTER

FOR PACKING PILLS,
TABLETS, Etc.

IN SIZES
TO COUNT FROM 10 to 250.

The largest
packers
recognise
that this is
the cheapest
and most
satisfactory
counting
appliance
made.

IMPROVED MODELS
HAVE PERFORATED
TRAYS.

New model will
be available
shortly



Inventors and Manufacturers :
C. G. HARRIS & SON
Montague Road, Hounslow, Middx.
Phone: HOUNSLAW 2848

COLLAPSIBLE TUBES



Write

TRENT GUNS & CARTRIDGES, LTD.
GRIMSBY

WAGNER'S DRY BOTTLE CAPS
BEST IN QUALITY & APPEARANCE
PROMPT DELIVERIES



R. V. WAGNER

33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5090

MANUFACTURERS OF

**TABLETS
& PILLS**

SULPHUR TABLETS
FRUIT FLAVOURED

Keen prices for Quantities

'Phone: DERBY 4266/7/8 'Grams: "DANIA" DERBY

CHEMISTS' CONFECTIONERY & RATIONING

As we receive only 50 per cent. of our pre-war consumption of Glucose and Sugar, we have to ration chemists in the same manner.

It will help us to maintain smooth running if chemists when ordering will order a three months' supply every quarter, and if they will order a quantity approximately 50 per cent. of their pre-war purchase. In this way we are endeavouring to ensure that every customer get his fair share.

If one-quarter of the order is made up with soft-centre lines, there is a bigger probability of getting the whole of the quantity ordered, as these lines take less sugar than the solid cubes.

PARAMOUNT PRODUCTS, Ltd., Britannia House, BRADFORD



The illustration shows a model suitable for garage of moderate size.

TO SAVE YOUR OIL IS TODAY VITAL TO THE COMMUNITY!

In addition, it cannot fail to interest you that by filtering your used lubricating oil for continued re-use you will make a substantial saving for yourself.

To conserve oil stocks is essential while world communications are difficult. To do so by means of the Stream-Line filter makes a saving for you which will repay the cost of the filter in a few weeks.

Did you realise that, in addition, the use of a Stream-Line filter ensures better lubrication than ever before? It encourages you always to run on clean oil, to use a good grade, and thus to reduce engine wear.

WRITE TO-DAY FOR FURTHER PARTICULARS

★ **STREAM-LINE FILTERS LTD.**

HELE-SHAW WORKS, INGATE PLACE, LONDON, S.W.8

EXPERTS IN OIL FILTRATION



25%

County Perfumery Company Ltd.
North Circular Road
WEST TWYFORD. LONDON. N.W.10.

Dear Sir,

Is the supply of Brylcreem scarce in your district? Then please be assured we are doing our best in very difficult circumstances.

In the National interest aggregate sales by individual wholesalers and ourselves to the Retail trade are compelled by wartime laws to be cut down to only 25% of what they were last year - yet the public demand for our goods has increased enormously.

We do our best to distribute "available supplies" evenly over the country - but large movements of population, civilian and military, frequently upset all our carefully worked out arrangements.

Meanwhile there are hundreds of new Wholesale sellers of Brylcreem, Hiltone Bleach and Brylfoam through whom our goods are being distributed to the Retail trade - if you are in difficulty over supplies, write and ask us to send you a list of new Wholesalers in your area.

Yours faithfully,
COUNTY PERFUMERY COMPANY LTD.

N.F. Fabricius
(N.F. Fabricius)
Managing Director.

SUPPLYING A VITAL WARTIME NECESSITY

MANESTY
All-British

AUTOMATIC WATER STILLS

for Chemically Pure

DISTILLED WATER

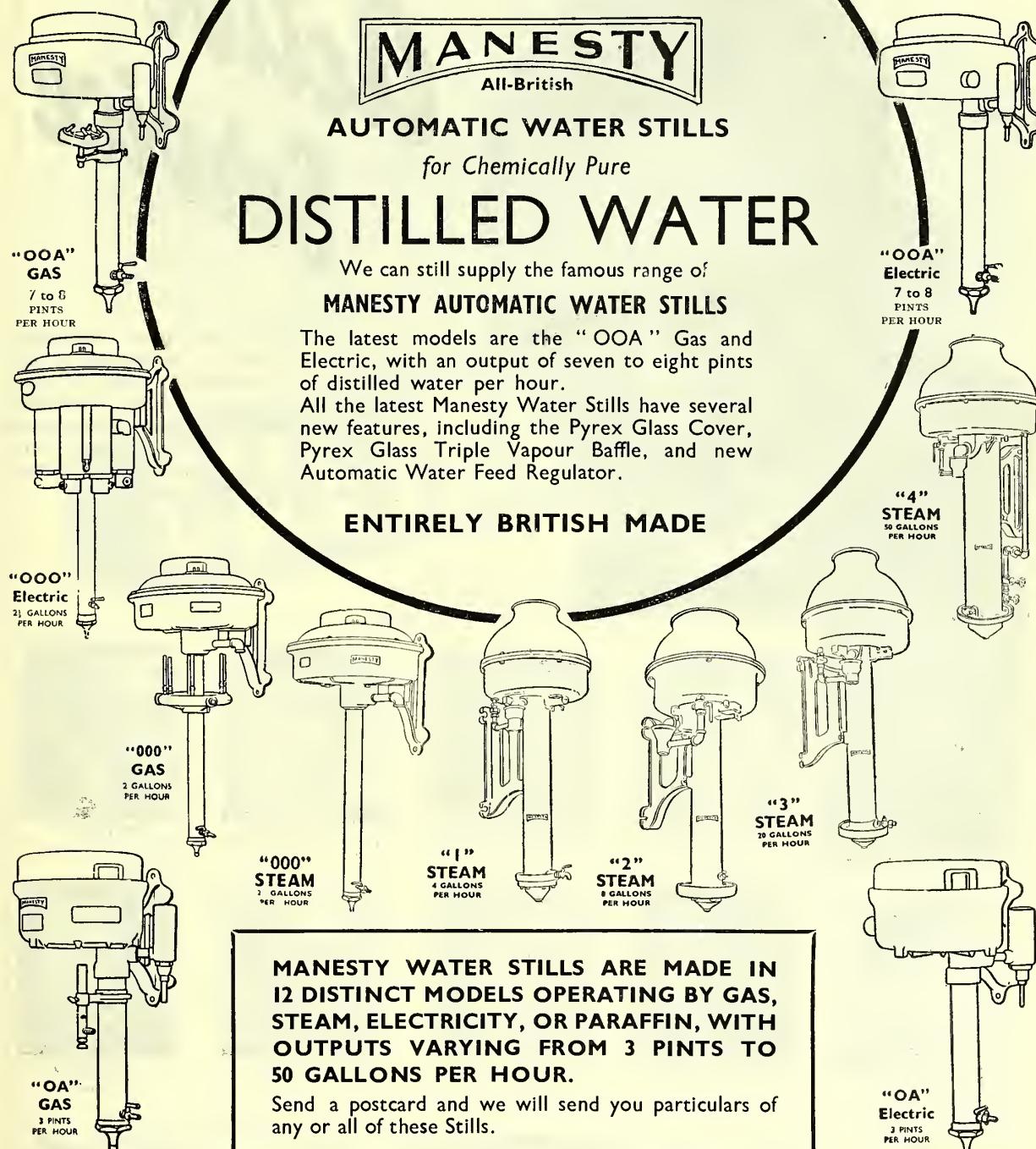
We can still supply the famous range of

MANESTY AUTOMATIC WATER STILLS

The latest models are the "OOA" Gas and Electric, with an output of seven to eight pints of distilled water per hour.

All the latest Manesty Water Stills have several new features, including the Pyrex Glass Cover, Pyrex Glass Triple Vapour Baffle, and new Automatic Water Feed Regulator.

ENTIRELY BRITISH MADE

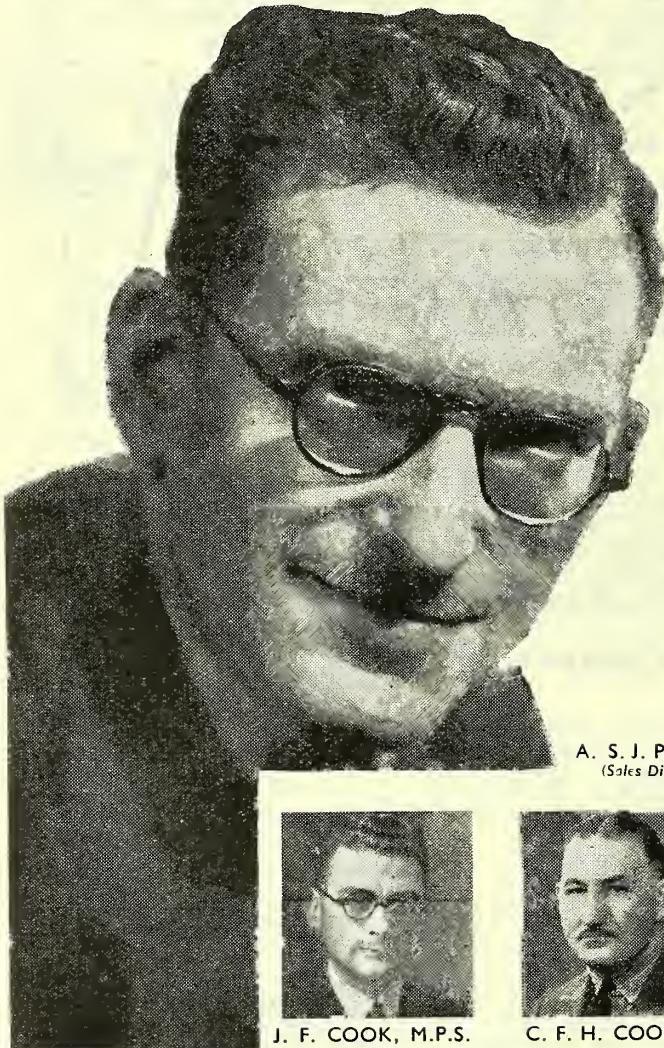


MANESTY MACHINES LTD.

5 SPEKE HALL ROAD
LIVERPOOL 19

ANOTHER KIND OF

*Active
Service*



A. S. J. PAINTER
(Sales Director)

Despite transport—and other—difficulties: despite price changes: despite lack of contact with our salesmen: despite all these things we are doing our best to maintain Meggeson Service as real Active Service—as it has been for the past 140 years. Production is nearly normal now, and each day our best becomes better.



J. F. COOK, M.P.S.
(Midlands and East Counties)



C. F. H. COOPER
(London and West End)



F. D. L. BURGE
(Home Counties)



J. P. DAWE
(South Western District)



Mrs. H. ODAMS
(South London)
Deputising for Mr. Odams
in R.A.F.



E. G. WILLIAMS
(Northern England)



E. O. MORT
(Wales and West Country)



R. D. HOBBS
(North-West England)



M. STRANG
(Scotland)

MEGGESON SERVICE WILL GO ON

MEGGESON & CO. LTD.

LONDON, S.E.16



CHLOROPHYLL

By careful attention to the manufacture of our Chlorophylls the Magnesium content, which is essential, is not replaced by Copper or Zinc, thus ensuring the product to be of maximum medicinal value. We have manufactured Chlorophyll Spirit Soluble since 1925, demand for which became so great that it was decided in 1930 to manufacture a whole range of Chlorophylls.

After careful research the following varieties of Chlorophyll were put on the market:—

SPIRIT SOLUBLE for manufacture of tablets, etc.

SPIRIT SOLUBLE EXTRA for tinting of spirituous liquids giving an extremely pure shade of green.

OIL SOLUBLE for colouring of oils, fats and waxes and for use in manufacturing of green soaps. This product has an extremely small Copper content, thus ensuring that the soap manufactured with it will not go rancid.

WATER SOLUBLE a product of extremely low alkalinity for use in colouring aqueous solutions.

All the above are completely soluble in their various classes of solvents.

The Potter & Clarke Chlorophylls are standardised on a Lovibond tintometer to a fixed shade of a very high standard varying through small limits, thus ensuring that any solution which may be made from them is always of the same intensity and colour.

POTTER & CLARKE LTD

60-64 Artillery Lane, LONDON, E.I 'Phone: BISHOPSGATE 4761 (6 lines)
77 Dantzig Street, MANCHESTER, 4 'Phone: BLACKFRIARS 8734

Bonus Offer of

'BENZEDRINE' INHALER

Available until
March 15th, 1941, unless previously cancelled

For window or counter display over a period of at least 14 days, bonus terms of 13 to the dozen are available on minimum orders of three dozen 'Benzedrine' Brand Inhalers, at 15/5 a dozen.

Orders for 6 dozen or more are subject in addition to a discount of 5 per cent, cash 30 days.

N.B.—The face price of the Inhalers is now 1/9 and the retail price with Purchase Tax added is therefore 2/-

Bonus goods are not exempt from Purchase Tax, which will accordingly be charged to Retailers and recovered by them in the retail price of 2/-

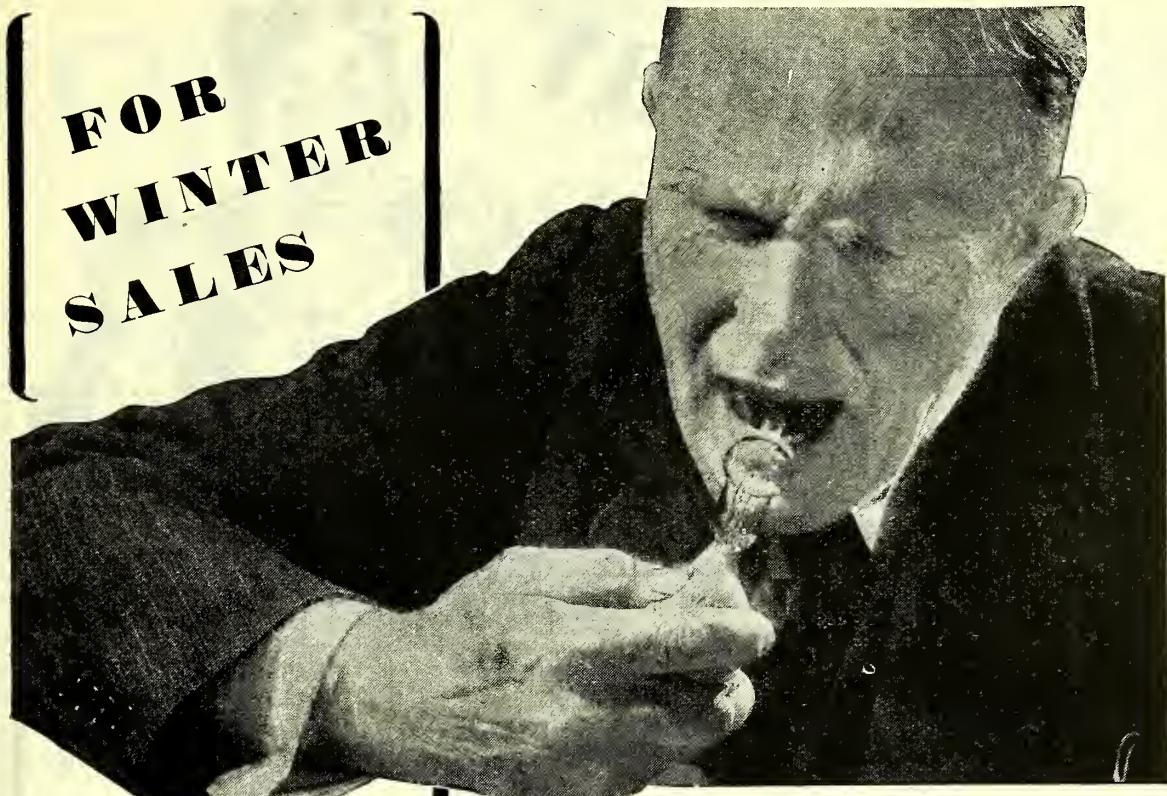
**MENLEY & JAMES, LTD.
123 COLDHARBOUR LANE
LONDON, S.E.5**

STANDARD 'BENZEDRINE' INHALER BONUS PARCELS			
3 dozen Inhalers at 15/5 per doz.		£2 6 3	
Purchase Tax:			
Goods as above	£2 6 3		
Bonus (three) .	3 10		
16½% on . . .	£2 10 1	8 4	
			£2 14 7
Less 2½% on £2 6s. 3d. for cash with order. . .		1 2	
			£2 13 5
6 dozen Inhalers at 15/5 per doz. . . .	£4 12 6		
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Goods as above	£4 12 6		
Bonus (six) . . .	7 8		
16½% on . . .	£5 0 2	16 8	
			£5 9 2
Less 7½% on £4 12s. 6d. for cash with order . . .		6 11	
			£5 2 3

NOTE: Calculated as above, the net value of an order accompanied by cash for:—

9 doz. 'Benzedrine' Inhalers is £7 13 5
12 doz. " " " £10 4 6

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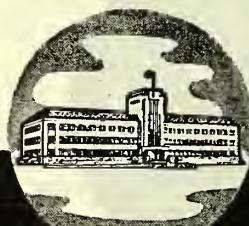
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NEWS OF THE WEEK

Trading with the Enemy.—The Trading with the Enemy (Specified Persons) (Amendment) (No. 1) Order, 1941 (S.R. & O., 1941, No. 3), which came into force on January 9, contains 137 additions to the "black list" of traders in neutral countries with whom it is unlawful to do dealings of any kind.

Export Licensing.—The Board of Trade have made the Export of Goods (Control) (No. 3) Order, 1941 (S.R. & O., 1941, No. 46) which came into force on January 23. Under the Order a licence is required to export to any destination a range of goods including glass ampoules, glass bottles, and tubular containers made from tubing.

Control of Coal Tar.—Under the Control of Coal Tar Order, 1941 (M. Stationery Office, price 1d.), operative on February 1, the acquisition of crude coal tar by tar distillers will be controlled by licence immediately. Control by licence of the disposal by tar distillers of any of the primary products of the distillation of crude tar may be instituted at any time. Prices of coal tar and coal tar products may also be controlled. Control of the coal tar distillation industry has been made necessary because of the importance to the war effort of coal tar products.

Chemists' Friendly Society.—The annual meeting of the Society was held at the registered office (195 Bath Street, Glasgow) on January 12. Mr. Hugh V. Campbell (president) occupying the chair. The airman referred to the honour that had been conferred on one of the Society's directors (Mr. A. B. Gilmour), who had been awarded the B.E. During 1940, 262 applications for membership had been accepted, and the membership was now approximately 3,600. The amount paid in benefits during the year totalled £3,942. Five retiring directors (Messrs. John Dick, John B. McVitae, John Weir, A. B. Gilmour and Sidney G. Home) were re-elected for further term, as were also the four Arbitrators (Messrs. A. O. C. Dewar, J. H. Hart, James Jack, John Keall and Professor J. P. Todd). The President (Mr. Hugh V. Campbell) and Vice-President (Mr. Sydney G. Home) were unanimously reappointed. Reference was made to the superior benefits paid by the Society in comparison with other Approved Societies, and members of the profession were urged to support their own Approved Society.

Fire Prevention (Business Premises) Order.—For the purposes of the directions of Regional Commissioners, issued under the Fire Prevention (Business Premises) Order (see *C. & D.*, January 25, p. 45, and Coloured Supplement), the expression "business premises" means any premises occupied wholly or partly for the purpose of any business, trade or profession, except premises occupied by any person partly as a dwelling house and partly for the purpose of his business, trade or profession. The expression "commercial premises" means any business premises, not being factory premises or local government premises. "Factory premises" means any business premises being a factory within the meaning of Section 151 of the Factories Act, or a dock, wharf or warehouse to which any of the provisions of that Act apply.

If the occupier of the premises has been unable to make the arrangements which the Regional Commissioner's directions call upon him to make, he must, within fourteen days, report the fact to the appropriate authority, who may accept his statement or may notify him that they are not satisfied that he cannot make the necessary arrangements, and give the occupier and the occupiers of any adjoining or neighbouring premises directions in writing to make joint arrangements for all the premises.

If the occupier of any premises to which the directions apply fails, within fourteen days, either to make the necessary arrangements or to satisfy the authority that he cannot make them, the appropriate authority may itself make the necessary arrangements for fire fighting, all male persons at such premises being called on to do whatever duty may be necessary.

Fire.—An outbreak of fire occurred recently at the pharmacy of Mr. D. C. Jackson, M.P.S., Wednesbury. The flames were soon under control and the damage was not serious, but Mr. Jackson is suffering from burns received while helping to put out the fire.

Society of Chemical Industry.—There will be a meeting, organised by the London Section, in the rooms of the Chemical Society, Burlington House, Piccadilly, London, W.1, at 2 p.m. on Monday, February 3, when Dr. E. F. Armstrong, F.R.S., will deliver the first H. E. Armstrong lecture.

Withdrawal of Authorities.—The Home Secretary states that he has suspended the operation of the Notice published in the "London Gazette" and "Edinburgh Gazette" of October 22, 1935, withdrawing from Aymer Douglas Maxwell, whose registered address is 30 St. Paul's Road, Canonbury, London, N.1, the authorities granted by the Regulations made under the Dangerous Drugs Act, 1920, to be in possession of and to supply any drug or preparation to which the Dangerous Drugs Regulations, 1937, and any drug to which the Raw Opium, etc. Regulations, 1937, apply.

IRELAND

Influenza Epidemic.—The outbreak of influenza in Eire (see *C. & D.*, January 25, p. 46) continues. Chemists have had a very busy time, especially in Cork, Waterford, and Limerick, but they have been able to get adequate supplies of medicines to meet requirements.

Cork Chemists' Dance.—A very successful dance held recently by the Cork Pharmaceutical Chemists' and Students' Association was organised by a committee consisting of Miss M. Lee (secretary), Miss Daly (treasurer), Messrs. M. MacManus, L.P.S.I., A. MacSweeney, M.P.S.I., R. Daly, M.P.S.I., L. Johnston, M.P.S.I., and M. Burns, and Misses MacCarthy, M.P.S.I., Lyons, M.P.S.I., and Omahony.

Eire Imports Warning.—Dublin Chamber of Commerce advises traders ordering goods from Great Britain or Northern Ireland to inform the consignor that the carrying companies will not accept goods for carriage to Eire unless the consignor also presents an export licence or, if the goods require no licence, unless he endorses the consignment note to this effect. A number of drugs and surgical appliances are on the Board of Trade list of goods that may not be exported from the United Kingdom without licence.

SCOTLAND

Fife Closing Hours.—Fife County Council has issued regulations fixing the closing hours for chemists' premises in the County areas at 7 p.m. on normal days and 8 p.m. on late days. The Order is already in force.

Burns Supper.—The annual Burns Supper of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society was held on January 21, Professor J. P. Todd (chairman of the Branch) presiding. There was a large attendance. Proposing "The Immortal Memory," the Rev. D. Langlands Seath, B.D., said that one of Burns' earliest and finest satires had been inspired by John Wilson, who acted as the local chemist and druggist at Tarbolton. Wilson took it as a compliment and afterwards, when Burns was famous, sought his help to secure a certain appointment. Professor Todd proposed a vote of thanks. He said that many fine speakers had proposed the toast in past years, and Mr. Seath had maintained the high standard. Mr. Jack Merry proposed the toast of "The Lassies O," Miss J. H. Suttie, L.D.S., replying. A programme of music was "dispensed" by Mrs. Peattie and Mr. George Muir, Mr. D. G. Mackenzie giving the "Address to a Haggis," along with other Burns numbers. Mr. J. H. Ramsay, Ph.C. (an ex-chairman of the Branch) proposed a vote of thanks to the artistes and chairman, and the latter extended the congratulations of the Branch to Messrs. Gilmour and Phillips, both present, who had figured in the recent Honours list.

EMPIRE AND FOREIGN NEWS

U.S. Purchases of Mexican Mercury.—An announcement has been made that the American Treasury is to make substantial purchases of mercury from Mexico in order to reduce shipments to Japan.

List of Indian Chemical Manufacturers.—A list of names and addresses of manufacturers of chemical and pharmaceutical products in India, together with particulars of their main items of manufacture, has been issued by the Indian Chemical Manufacturers' Association, 102A Clive Street, Calcutta.

Additions to South African Poisons Schedule.—By an Order dated October 4, the Minister of Public Health of the Union of South Africa added hydrofluoric acid, fluorides, and preparations or admixtures of these substances to the list of poisonous substances under the Medical, Dental and Pharmacy Act, 1928.

Alleged Infringement of Canadian Patent.—Recently the Supreme Court of Canada allowed an appeal by the United Drug Co., Ltd., Toronto, and Richards Glass Co., Ltd., Toronto, against a decision given by the Exchequer Court in an action for alleged patent infringement. The original action had been brought by Ralph Beck, Montreal, and concerned an internal rib, under the shoulder of the nipples of infant-feeding bottles, and having the effect of preventing leakage and accidental removal while in use.

New Nitrogen Compounds from Petroleum in U.S.A.—Two pharmaceutical intermediates similar to quinine and cocaine have been recovered from petroleum by-products at the University of Texas in Austin, Texas, U.S.A., by Dr. James R. Bailey. In the past Dr. Bailey has recovered some thirty-two compounds from petroleum by-products, including adalin, novasperin and salophane. The new discoveries, which are in the form of white crystal, are known as benzoin quinolines and are stated to "border on the field of the cancer-producing compounds."

Move Towards Uniform Drug Legislation in Canada.—The widely differing drug schedules in each province of the Dominion of Canada have led the Canadian Pharmaceutical Association to draw up suggested uniform schedules for adoption throughout the Dominion. The list has been submitted to provincial associations for criticism. It comprises four schedules, as follows:—(i) Drugs that may be sold on prescription only; (ii) drugs of which the sale must be registered and the purchaser known or properly introduced; (iii) other drugs that may be sold only under supervision of a pharmacist; (iv) drugs that, if sold by others than pharmacists, must be in sealed packages.

New Dye for Shock Treatment.—It is announced that a quantity of a special dye—T 1824—which is unobtainable in this country, is

being flown across from the United States for experiments, at the London Hospital, into the treatment of shock. In secondary shock the most serious form, prostration, is mainly due to a considerable fall in blood pressure, which, in turn, is due to a fall in the volume of the circulating blood. The main subject of the present investigation is to determine whether this fall can be largely prevented or counteracted by use of the dye, of which only 10 gm. is at present obtainable.

Vitamin C Distribution in Germany.—According to a paragraph in "The Times" on January 21, the Reich Ministers of the Interior and Education have issued a joint decree for the distribution free of cost of sugar tablets containing vitamin C to all school children between ten and fourteen years of age in thickly populated districts, daily from February 1 to May 31. No distribution will be made in regions where fruit and vegetables are plentiful, but the decree will apply to territories incorporated into the Reich in recent years. Since the spring of 1940 cebion sugar, containing synthetic vitamin C, has been distributed experimentally each day without charge through public health offices in many parts of Germany. The results were so satisfactory that it was decided to extend the treatment experimentally to newly-born children from December 15, 1940, to March 31, 1941. The results are said to demonstrate that the tablets greatly enhance their power to resist infection.

International Traffic in Opium.—In its report on the year 1938, only recently issued, the League of Nations Advisory Committee on Traffic in Opium and Other Dangerous Drugs deplores that Iran, the Union of Soviet Socialist Republics and Jugo-Slavia, all of them large opium-producing and opium-exporting countries, failed to send in reports for the year, and that Bolivia and Peru, large producers of coca leaves, were similarly in default. Various amendments in legislation and ordinances are reported from the 127 states, dependencies, and territories concerned. An amendment of the Dangerous Drugs Ordinance, 1935, in Hong Kong was enacted to meet the enormous traffic in heroin there: over 6,000 premises were visited during 1938; over 3,700 opium pipes and 5,900 heroin divans found, and 717 persons convicted for offences. In accordance with what is known as "the six-year programme," licensed cultivation of opium in China should cease at the end of 1940. In Burma, in 1938, the total revenue derived from opium was Rupees 44,20,535. In Germany and Hungary the practice of extracting morphine from poppy straw was continued; in the former 520 kilos of morphine was derived from 193,000 kilos of poppy straw; in the latter 1,187,707 kilos of poppy straw was used and the average quantity of morphine derived was 900 gm. per kilo of straw. The Committee urges continuance of its work despite the war.

TOPICAL REFLECTIONS

A Valuable Guide.—The *C. & D. War-time Trade Guide* published as a supplement to your last week's issue places us once more in your debt. Shortly before I received it I had been through the pages in your 1941 *Diary* allotted to other aspects of the present war-time legislation; and I advise your readers to make themselves acquainted with as many as they need of the facts in both publications. Chemists in business will obviously have to keep this supplement for reference: they cannot be expected to carry in their minds more than a few of the many items listed. I take this opportunity of congratulating you on the appearance of another *Diary* true to type, containing a well-considered selection of the information most in daily demand: even so unusual a feature as the postal censorship has not been overlooked.

Reservation Age of Pharmacists.—During a discussion at Leeds (p. 46) a resolution was adopted asking the Council of the Pharmaceutical Society to "declare a definite policy on a possible change in age reservation" for pharmacists. The matter is undoubtedly urgent: failing an agreed arrangement we may wake one morning to find that the supply of qualified men has been depleted beyond the safety limit. Mr. Paul Dobson, the originator of the resolution, took the right line in urging a statistical approach to the problem. Any competent group of pharmacists could decide without elaborate investigation, if they were supplied with the number of the pharmacists in the country, how many qualified men would be needed to staff them for the duration of the war: the number should allow a reasonable margin for reduction by illness and death. This is eminently a case in which the protection of the public coincides with the needs of pharmacy as a profession.

A Constructive Suggestion.—The informative address on "Drug Supplies in War-time" given in London by Mr. Arthur Mortimer on January 16 (p. 54) ended with the suggestion that there should be formed what the speaker described as "an advisory committee for the drug trade." It should include, he said, "representatives of the manufacturers, the wholesale trade associations, retail trade associations, as well as of the Pharmaceutical Society." This, in my view, is one of the most practical steps that can be taken in war conditions, a step that, if adopted, may result in the smoothing out of some rough places in trade

relations with Government departments. While absolute identity of interests among the different sections of the trade may be a counsel of perfection, union of interests seems to me to be quite feasible, given good will and common sense. One of the questions to which such a body may properly turn its attention at an early date is the Medicines Stamp Acts, now in a state of apparent quiescence. It was recorded in your news recently that two of the interests concerned in the solution of this problem had been unable to agree: it may be that their absorption in a larger association would facilitate the resolution of the discord. Before I pass to another topic I should like to inquire whether some of the data obtained in Mr. Mortimer's world survey of drugs can be published without disclosing confidential information. They should be of unusual interest.

John Dalton's Apparatus.—Scientific apparatus is for the most part fragile, and there is little hope that many of the Dalton relics preserved at the headquarters of the Manchester Literary and Philosophical Society have been saved from the wreckage of that building (p. 45). A lucid account of this great pioneer in science, and in particular of his work in Manchester, was contributed by Mr. William Kirkby to your issue of July 4, 1931 (p. 16). Dalton, it is worth recalling, went to Manchester in 1793 as tutor in mathematics and natural philosophy at the Manchester Academy (now Manchester College, Oxford) at a "guaranteed" salary of £80 for a session of nine months. After six years he resigned in order to undertake private tuition and experimental work in chemistry. He read his first paper before the Literary and Philosophical Society in 1794, and in the same year was elected a member. In London he gave two series of lectures at the Royal Institution, the first in 1803, the second in 1809, making during that period the acquaintance of Davy and other eminent men. Pharmacists attending the 1887 meeting of the British Pharmaceutical Conference in Manchester had an opportunity of seeing a selection of his apparatus at an exhibition arranged by the British Association. One of your subsequent correspondents wrote: "What would moderns think of a laboratory fitted with such simplicities which produced such accuracies?"

Xrayser

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

A. C. DANIELS & CO., LTD. (P.C.)—Capital £2,000. Objects: To carry on business as manufacturers of and dealers in surgical, medical, nursing and veterinary instruments, appliances, etc. Alfred C. Daniels, 39 Liberty Lane, Addlestone, Surrey, and Sidney Daniels, 25 Amhurst Court, Stamford Hill, London, N.16, directors. R.O.: 19 Tottenham Street, London, W.1.

A. W. BERESFORD, LTD. (P.C.)—Capital £1,000. Objects: To acquire the business of a chemist and druggist carried on by the executors of the late A. W. Beresford at 414 Nechells Park Road, Birmingham, 7. Mrs. Nellie J. Beresford, 155 Minstead Road, Erdington, Birmingham, and Clifford A. Beresford, Rustlings, Holymoor Road, Holymoorside, Chesterfield, directors.

C. B. PARSONS CO., LTD. (P.C.)—Capital, £5,000. Objects: To acquire the business of the C. B. Parsons Co., 21 Lower Church Street, Ashby-de-la-Zouch, and to carry on business as manufacturers of soap, chemicals, disinfectants, fertilisers, etc. John H. and James L. Collier, Valley Road, Liversedge, Yorkshire, and Collinson B. Parsons, Westfield, Ashby-de-la-Zouch, directors.

HENRY WILLIAMSON (CONGLETON), LTD. (P.C.)—Capital £4,000. Objects: To acquire the business of a chemist and druggist carried on by the representatives of the late Henry Williamson at Swan Bank, Congleton. Mrs. Fanny J. Williamson, Mrs. Mary Moss, Leonard Williamson, M.P.S., and Harold Williamson, all of Park Lane, Congleton, directors. Solicitors: Sheldon, Plant & Loveridge, Congleton.

ARTHUR McEWAN, LTD. (P.C.)—Capital £1,000. Objects: To carry on business as chemists and druggists, etc. Mrs. Margaret McEwan, 133 Clarkston Road, Cathcart, Thomas McEwan, 111 Old Castle Road, Cathcart, Margaret Mary McEwan, 133 Clarkston Road, Cathcart, and Charles S. Drummond, M.P.S., 14 Great George Street, Hillhead, Glasgow, directors. R.O.: 25 Clarkston Road, Cathcart, Glasgow.

FRANK JONES (CHEMIST), LTD. (P.C.)—Capital, £1,500. Objects: To acquire the business of a chemist and optician carried on by the representatives of the late Frank Jones at Houghton-le-Spring and Shirey Row, Durham. Mrs. Harriet Jones, 82 Sunderland Street, Houghton-le-Spring; Caroline E. Attwood, M.P.S., Newgate Pharmacy, Malvern; Frank L. Jones, M.P.S., and Ruth Jones, both of 82 Sunderland Street, Houghton-le-Spring, directors. R.O.: 63 Newbottle Street, Houghton-le-Spring, Durham.

BANKRUPTCY.—Edward A. H. Wright, "The Coppice," Woodlands Avenue, Hornchurch, Essex, chemical manufacturer.

QUOTA GOODS IN BOMBED AREAS

A SCHEME for co-operation between retailers in bombed areas has been announced by the Board of Trade. Retailers whose stocks of controlled goods have been destroyed by enemy action are allowed to replace those stocks without regard to the restrictions imposed by the Limitation of Supplies Orders. Where premises have been destroyed, and alternative premises are not available, or their acquisition is likely to be delayed, arrangements should be made for the marketing of a portion of these replacement stocks by other retailers. Unless this is done there is a danger that the consumers who would normally be looking to the bombed shops will go short of essential supplies. An arrangement of this kind, sponsored by the Southampton Chamber of Commerce, is now being operated on a large scale by the traders of Southampton. Traders whose stocks have been destroyed have surrendered replacement rights to the value of thousands of pounds, and on the basis of this surrender the Board of Trade have licensed a score of retailers whose premises are intact to obtain immediate additional supplies. Chain stores and multiple shops have co-operated with local traders in this matter. Chambers of commerce and chambers of trade and other trade organisations throughout the country should, in the interests of the community and of their members, arrange schemes of co-operation without delay, the object being to secure agreement among traders in advance of enemy action as to a general basis of allocating the "replacement" goods of any of their number whose premises and stocks of controlled goods may be destroyed. A reciprocal marketing scheme would involve (a) the surrender by "bombed" traders, to those whose premises remain intact, of part at any rate of the rights which the former enjoy under Board of Trade general licences to obtain "replacement" goods to the full extent of the controlled goods destroyed; (b) the marketing by the "intact" traders of the goods obtained by them as a result of the surrender of replacement rights to them by the "bombed" traders; and (c) the establishment of "clearing-house" machinery for pooling and re-allocation of the rights surrendered and for collection and distribution of the consideration to be paid by the "intact" traders therefor. The Board of Trade would require undertakings from the "bombed" traders concerned not to exercise their replacement rights to the extent to which those rights are surrendered and would then issue

special licences to the registered suppliers of each of the "intact" retailers to the extent of the replacement goods to be handled by that retailer. The extent of the replacement rights to be surrendered by "bombed" traders must depend to some extent on the amount of damage inflicted in the area, the possibility of obtaining alternative premises without undue delay and the immediate needs of the community. It should, however, be possible for traders to settle in advance (a) the proportions in which replacement rights would be taken up by "intact" traders; and (b) the basis on which the profit on replacement goods so marketed should be apportioned between "bombed" and "intact" traders respectively. The proportion of profit to be paid over to "bombed" traders for surrender of their rights might conveniently be expressed in terms of a fixed percentage on the wholesale invoice value of their "replacement" goods handled by "intact" traders.

EDINBURGH EVENING MEETING

The second meeting of the session in the series of Evening Meetings of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on January 17, Mr. W. F. Hay (chairman of the Executive) presiding. The chairman referred to the death of Mr. D. B. Dott, who had for many years been a contributor to the Evening Meetings, and expressed the wish that the passing of Mr. Dott should be recorded in the minutes. He then called upon Professor Dryerre to deliver his address on "Blood Transfusion and Blood Groups."

Professor Dryerre outlined the evolution of blood-transfusion practice. The earliest record of its having been practised in Britain was in 1666, when Sir Christopher Wren transfused into dogs the blood of other animals. Two years later the first transfusion into man was recorded, sheep's blood being used. Brief reference was made to the work of Denys of Montpelier. The practice of transfusion fell into desuetude until 1818, when James Blundell, a lecturer on physiology and midwifery in St. Thomas' and Guy's Hospitals, London, adopted it in the treatment of patients. In 1900 Landsteiner drew attention to the agglutination of red corpuscles that occurred when the bloods of certain human beings were mixed together, but the value of Landsteiner's work seems not to have been realised at the time. In 1907 Jansky reported on work which confirmed and elaborated that of Landsteiner. Jansky divided the blood of human beings into four groups, which he numbered, and Professor Dryerre showed by a diagram how these blood groups reacted upon one another. Blood transfusion, he continued, could be made by the direct or by the indirect method. With direct transfusion, the donor had one of his arteries connected by a cannula to a suitable vein in the patient. Objections were that the surgeon was unsure whether or not the blood was flowing in the cannula, nor did he know how much blood the recipient had received. The indirect method involved certain difficulties, the chief being to prevent coagulation of the blood during its transference. Earlier anti-coagulants had been toxic to the recipient, but about 1914 it was discovered that sodium citrate could be added to the blood in sufficient concentration to prevent coagulation and yet be insufficient in amount to have deleterious effects. This was the anticoagulant most commonly used today, in a strength of 100 mils of 3 per cent. solution to each 420 mils of blood; to preserve the blood for any length of time, it was advantageous to add 20 mils of a 15 per cent. solution of glucose.

During the war of 1914-18 considerable impetus was given to blood-transfusion practice. Saline solution proved unsatisfactory, owing to the readiness with which it escaped from blood vessels into the soft tissues. The difficulty was partly overcome by addition of gum acacia to the saline, a suggestion made by the late Professor Sir William Bayliss, and the gum-saline solution proved so valuable that its use was continued for many years after the termination of the war. Professor Dryerre then exhibited some of the commoner appliances used for withdrawal of blood from donors, and for its subsequent transfusion into the recipient. Emergency conditions today, he said, called for transfusion under two main headings: to counteract the effects of severe haemorrhage, and to alleviate surgical shock. For replacing blood lost by bleeding it was best to use whole blood as transfusate. In surgical shock, on the other hand, there was not necessarily any material loss of blood, but there was a transference of the fluid portion from the vessels to the tissues. This condition gave rise to increased haemoglobin percentage, for which a suitable remedy was to inject either blood plasma or blood serum. The advantage of using serum or plasma instead of whole blood was that these could be stored in safety for a much longer period, a convenience that was accentuated if the serum was evaporated to dryness. The residue so obtained could be kept indefinitely without need for a refrigerator. A specimen of dried serum was exhibited. If necessary less water than the original volume of the serum could be used for the subsequent solution, and the transfusion of concentrated reconstituted serum raised the osmotic tension of the blood and helped in the withdrawal of fluid from the tissues, thus further increasing the volume of the circulating blood.

A number of questions were asked by members and the lecturer briefly replied to them.

IRISH DRUG ASSOCIATION

THE annual meeting of the Irish Drug Association was held in Dublin on January 13, Mr. P. F. McGrath (president) in the chair. The attendance included representatives from Cork, Waterford, Kildare, and other centres. THE PRESIDENT expressed regret at the absence of the secretary (Mr. R. J. Kidney), who had been seriously ill; on behalf of the meeting he wished Mr. Kidney a speedy recovery.

President's Address.—Mr. McGrath said the Executive Committee had met twenty-one times in the year; subcommittee meetings had been held on almost as many occasions, and two special general meetings had taken place. The Committee had dealt with over 4,500 letters, circulated 2,546 numbered price changes and 800 unnumbered drug alterations to the price list first issued in January 1940. No decision had yet been made regarding the time of issue of a new list. Several conferences had taken place with Government departments, and with representatives of manufacturers and wholesalers. The previous year a motion had been passed in connexion with the Shops (Hours of Trading) Act, 1938. Since then the Government had acceded to the Committee's approaches and made a further exemption Order. In effect, chemists who carried on what might be styled a "real chemist's business," were to all intents and purposes exempt from the restrictions of the Act. A motion calling upon the Committee to fix D. and P. prices for Dublin and district had been followed up, but had turned out a complete failure, owing to lack of co-operation by a few. Coding and prices had been well maintained and any instances of price-cutting immediately tackled by the Committee. Invaluable aid had been received from the Proprietary Articles Trade Association, which had placed the names of several non-chemist traders on its stop list. The Committee trusted that members would continue to support the P.A.T.A.

"Last year," went on Mr. McGrath, "the Department of Supplies approached us on the distribution of essential drugs. A suggested circular was prepared in co-operation with the wholesale section, setting out the lines which it was considered should be stocked in maximum quantities by chemists. In turn the public were to be advised to purchase these preparations. The Department, however, did not proceed with the suggestion and the matter was consequently dropped." A special general meeting had been held to combat the breaking of the "opening and closing" agreement by non-observance of the eight o'clock closing. Another matter of grave concern was that chemists continued to open new shops. These new openings were serious, and positions would have to be found for qualified men to prevent a glut of chemists' shops from appearing. Every year, for some years past, presidents of the Association had commented on this tendency, and he thought the time was almost ripe when chemists should always refuse to do business with non-qualified representatives, and should agitate for qualified managers and representatives in the firms that handle their lines.

"The effects of the war," continued Mr. McGrath, "are beginning to be felt more seriously. . . . In the coming year we are bound to be very seriously affected in this respect. Imported goods will be definitely curtailed, and the petrol shortage will considerably reduce deliveries. We certainly cannot expect the daily deliveries to which we have been accustomed in the past. Under these circumstances I think you will agree that it is advisable for our members to keep their stocks up to the maximum capacity, especially essential drug stocks." A special delegate meeting held in December, he concluded, had agreed that a resolution should be submitted to the annual meeting urging that "penny sales" should be banned by the Association; this resolution had not been put on the agenda because communications had been received intimating that they would be discontinued for the duration of the war.

Treasurer's Report.—MR. G. A. MCLEAN LEE (treasurer) said the financial position for the year was very satisfactory. They had had the benefit of the two-guinea subscription and that had helped considerably. The issue of a new price list during the year had entailed expenditure, but something like £230 had been allocated—an amount they had to their credit the previous year. After paying for the price list and capital charges, they had an excess of income over expenditure of £176 15s. This he thought satisfactory. On the income side they had received £1,296 in subscriptions, against £985 in the previous year. Price list advertisements had brought in £165, against £5. On the motion of Mr. M. COSTELLO, seconded by Mr. J. A. O'Rourke, the report and statement of accounts were unanimously adopted.

MR. A. R. LESTER, Cork, raised the question of paying expenses of country delegates; if the Association did this he thought they would have more representative meetings. MR. MCLEAN LEE said that they were already paying the travelling expenses of such delegates. MR. LESTER said the journey to Dublin generally meant staying one night in a hotel; he thought one night's hotel expenses should be paid. THE PRESIDENT pointed out that, with the exception of Mr. Lester, none of the country members had attended a meeting of the Committee during the year. They had in mind holding meetings in each district where there was a local Association. MR. MEAGHER agreed that delegates

who came from more than fifty miles away should be allowed hotel expenses. The matter was referred to the Committee.

Committee.—On the motion of MR. H. P. CORRIGAN, Dublin, seconded by MR. J. GORRY, Naas, the following outgoing members of the Committee were unanimously re-elected: Messrs. D. J. Murphy, M. J. O'Rourke, J. Duggan, D. Woulfe, Dr. J. A. Mitchell, J. K. Whelehan, and G. C. O'Neill. Miss Anne McNamara, incorporated accountant, was re-elected Auditor, on the motion of MR. T. C. Scott, seconded by MR. J. A. O'Rourke.

Distribution to Non-chemist Traders.—A letter was read from a Dublin distributing firm setting out its policy regarding distribution of certain proprietary lines to non-chemist traders, and indicating that it might be prepared to consider confining the sale of two of its own lines, namely stomach powder and tablets, to chemists. MR. BRENDAN SMITH (organiser) said the case had been made that the firm in Dublin was merely a distributing agent for several of the items in question, and had no control over sales policy. It had been mentioned at the interview that the sales representatives had opened 200 new accounts with non-chemists in Dublin and district.

"Penny Sales."—A number of letters were next read in connexion with "penny sales." The representatives of one firm wrote: "We can only say that there will be no further sales of the kind mentioned during the war, and in the event of our contemplating a resumption of such sales we would give your Association three months' notice." Another wrote: "We have no hesitation in assuring you that there will be no further sales during the war, as we could not supply a range of goods at prices which would enable agents to sell at sales prices." A Dublin retail firm had written intimating that it was prepared after May 1 to fall in with the Association's suggestion, and not hold any "penny sales" for the duration of the war. MR. GORRY said there had been nothing in the resolutions proposed at the December meeting about the duration of the war. One firm proposed to hold one more "penny sale" before May 1, and that showed the matter was not handled strongly enough by the Association. THE PRESIDENT said the firm in question had explained they had to hold this sale to enable them to sell off some "penny sale" lines. The meeting approved of the present position.

Defence Work.—MR. J. A. O'Rourke, Dun Laoghaire, moved the following motion standing in his name: "That the Committee be requested to investigate the legal position of members called upon for National Defence work." MR. O'Rourke said he had in view the position of members and their staffs who were called out on local defence or A.R.P. service. Under the conditions of employment the 48-hour week applied; if an assistant went out, had the chemist to pay overtime? THE PRESIDENT drew attention to Miss McNamara's statement that the question of a 48-hour week did not arise in an emergency. MR. MCLEAN LEE said there was also the point of a member with one qualified man. Suppose that man joined the Defence Forces, had the unfortunate proprietor to stay in the shop without getting out for meals? It was decided to refer to the Committee the issues raised by Mr. O'Rourke.

War Emergency Fund.—MR. O'Rourke also addressed the meeting on the question of creating a war-emergency fund to help chemists who might be affected. A subscription of £5 from each member could form the nucleus. MR. MCLEAN LEE said he thought it would be more for the Pharmaceutical Society to look after its Licentiates. THE PRESIDENT: We will consider the matter in Committee, but I do not hold out any great hope we shall be able to carry it through.

MR. O'Rourke said that if a fund of £1,000 or £2,000 was raised a number of grants ranging from £30 to £40 and £50 could be given. The Pharmaceutical Society had a Benevolent Fund, but that would not meet the case. MR. SMITH said a general scheme for traders had been initiated by a Dublin insurance firm, but the Government had asked the firm to call it off; the same thing might happen to an I.D.A. scheme.

Apprentices.—MR. BRADY asked if there was anything they could do about apprentices. Four or five years ago it had been difficult to get an apprentice; now he was being offered two or three a week. He wondered if it would be possible to suggest to members to take an apprentice once in every six or seven years, instead of in every four as at present. THE PRESIDENT said there would have to be a regulation, and the people to make it were the Pharmaceutical Society. After further discussion the following motion proposed by MR. MCLEAN LEE, and seconded by MR. O'NEILL, was unanimously adopted: "That this general meeting urges the Council of the Pharmaceutical Society of Ireland to take steps to reduce substantially the excessive number of persons entering the profession, and that the Council explore the principle that not more than one apprentice be allowed to each qualified proprietor and each qualified chemist employed in a shop."

Officers.—At a Committee meeting held subsequently, MR. P. F. McGrath was unanimously re-elected President for 1941, MR. Francis X. Meagher Vice-President, and MR. G. A. McLean Lee Treasurer.

RECENT DEVELOPMENTS IN THERAPEUTICS

by F. Prescott, M.Sc., Ph.D., A.I.C., M.R.C.S., L.R.C.P.

XI.—Drugs Used in Mental Diseases

Epilepsy.—Drug treatment is of paramount importance in the treatment of epilepsy. In the past the sheet anchor in treatment was bromide, and although this is still used in a number of cases, newer drugs are gradually replacing it. The doses formerly used—up to 180 gr. a day—were no doubt effective in controlling fits, but they produced mental dullness, drowsiness and sometimes signs of bromism or bromide intoxication. The use of barbituric acid derivatives marks the greatest advance in the treatment of epilepsy in recent years. Phenobarbitone was the first to be used, and, in conjunction with bromides, is still held in high esteem. Attempts have been made to reduce the hypnotic action of the barbiturates, while retaining their sedative and anti-spasmodic action. This was to some extent achieved by the addition of caffeine or by the simultaneous administration of benzedrine. The latter is also used in the treatment of mental conditions associated with depression and fatigue and also of alcoholism. A dose of 1–3 gr. of phenobarbitone a day is usually effective in controlling epileptic fits. It is not habit-forming and may be taken over a period of many years without harmful effects. Its methyl derivative (phemitone) is stated to be as effective in controlling epileptic fits, and it has the advantage of causing less drowsiness. Several reports on large numbers of epileptics have shown a marked superiority of methyl phenobarbitone over phenobarbitone in the lessening of fits in severe cases. When changing from one drug to another in the treatment of epilepsy, the change must be effected by gradual substitution, otherwise fits may be precipitated.

Merritt and his colleagues in America noted that phenobarbitone and its derivatives were the most effective of the barbitone drugs in the control of fits. They therefore concentrated on the phenyl radical of the phenobarbitone and prepared a number of phenyl derivatives. One of these, sodium diphenylhydantoinate (epanutin, dilantin, solantoin), was particularly effective. The drug has been widely used in America and in this country in the treatment of epilepsy. Chemically, it is not a barbiturate, but a derivative of glycolyl urea instead of malonyl urea, and is closely related to phenylethyl hydantoin (nirvanol), which has been used as an anticonvulsant in St. Vitus' dance for many years. It is claimed that sodium diphenylhydantoinate is an effective anticonvulsant with very little hypnotic effect. In this it differs from phenobarbitone, which is soothing and relaxing; sodium diphenylhydantoinate makes the epileptic mentally alert. It is particularly useful for controlling *grand mal* or major attacks, and although not so effective in *petit mal* or minor attacks, it is worth a trial in those cases that do not respond to other medication. The drug is probably slower in action than phenobarbitone and needs to accumulate in the body before it exerts its full effect. Sudden withdrawal, as with any anti-epileptic drug, results in a shower of attacks. There appears to be a striking synergism between sodium diphenylhydantoinate and phenobarbitone, so that a combination of both may sometimes give better results than either drug given separately. Toxic symptoms may sometimes occur from the use of the former drug. They include skin rashes, gingivitis, dizziness, nose bleeding and blood changes. It is believed that these symptoms may be due to vitamin C deficiency. Vitamin C has therefore been given to patients receiving sodium diphenylhydantoinate in the hope of preventing these toxic symptoms.

Recently it was discovered by accident that an intraperitoneal injection of a dye called brilliant vital red inhibited fits in rabbits. The dye was then tried on a group of epileptics receiving phenobarbitone, and it was found that in over half of the patients the incidence and severity of the fits were reduced. Further clinical trials over an extended period are needed before this treatment can be critically appraised. Status epilepticus, in which epileptic fits occur in rapid succession, is a medical emergency and calls for immediate treatment. Injections of scopolamine and intravenous barbiturates such as somnifaine, hexobarbitone and sodium amytal (isoamylethylbarbituric acid) are given to arrest the course of the fits.

Coma and Shock Treatment of Schizophrenia.—The recent introduction of the coma and convulsion (shock) treatment of the mental disease known as schizophrenia ("split mind," *dementia praecox*) has altered to a large extent the treatment of cases of recent origin. There is no real *rationale* for either method, but it is claimed that a recovery rate of over 50 per cent. may be anticipated provided the disease is of less than a year's duration. Insulin lowers the blood sugar level and finally produces a state of coma in a normal person. The insulin treatment of schizophrenia consists of injecting sufficient of the preparation to produce a series of hypoglycaemic states, and interrupting them after varying periods by giving glucose by mouth or intravenously, and 5 per cent. CO₂ in oxygen by inhalation. It is too early to say how permanent is the improvement under this treatment. Apparently neither the insulin nor convulsion treatment of schizophrenia are without risks, as it is claimed that both may interfere with the oxygen

supply to the brain and produce permanent damage to this organ. Convulsion therapy consists of injecting certain drugs twice a week to produce fits of an epileptiform nature. Among the drugs used are leptazol (cardiazol, metrazol), coriamyrtin, 3-ethyl-4-cyclohexyl-1:2:4-triazol (also known as triazol 156) and picrotoxin. The complications of this form of therapy include fractures of the spine, arms and legs owing to the severity of the convulsions. These complications have recently been overcome by injecting curare, the South American Indian arrow poison, which blocks the neuromuscular junction.

Barbiturates in Psychiatry.—Certain mental diseases such as schizophrenia and conditions associated with continued agitation and excitement are now treated by prolonged narcosis. The object of this treatment is to keep the patient asleep for sixteen to twenty-two hours a day for a period of ten days or more. In some cases it has been continued as long as a month without any untoward effects. The technique employed varies among different psychiatrists, but usually somnifaine, a mixture of the diethylamine salts of barbitone and allylisopropyl barbituric acid, is given intramuscularly in doses of 2–3 c.c. twice a day. Paraldehyde is sometimes given in between. Just before the injections, when the patient is relatively wakeful, food is administered and the patient's toilet performed. The treatment may have a toxic effect on the heart and kidneys, but the simultaneous administration of insulin and glucose has eliminated the more serious toxic symptoms and reduced the danger of fatality to negligible proportions. A mixture of barbitone and phenobarbitone has also been used for prolonged narcosis. Sodium amytal is used in the treatment of stuporous mental patients. After the injection of 0.5 gm. intravenously, patients who have been mute and resistive for weeks and even months begin to be talkative, answer questions and become co-operative. Larger doses cause sleep.

Some of the new intravenous anaesthetics such as hexobarbitone (evipan) and methyl-allyl-isopropylbarbituric acid (narconumal) are now used in psycho-analysis, to induce a state of hypnosis, in which the patient is freed from his normal inhibitions, and often reveals to the psychotherapist his subconscious thoughts. According to one technique sufficient of the drug is injected to produce a very short sleep and the patient comes round in a talkative semiconscious state, suitable for psycho-analysis. Another method is to inject a little of the drug to make the patient confused and to psycho-analyse him before he sleeps. This technique, known as narco-analysis, has proved of considerable value in the treatment of war hysteria, "shell shock," and the neuroses.

Vitamin Factor in Mental Disorders.—Owing to their restricted diets, food fads, and negativism with regard to food, mental patients often consume an ill-balanced diet deficient in vitamins, especially the B complex and vitamin C. Alcoholics particularly, consume diets poor in vitamins; they obtain calories in the form of alcohol rather than food. Excellent results have been claimed for the treatment of delirium tremens and Korsakoff's psychosis, two mental conditions affecting some alcoholics, with vitamin B₁ and nicotinic acid. A mental condition known as encephalopathy, characterised by stupor, delirium and depression, has been described and attributed to a deficiency of nicotinic acid in the diet. A group of a hundred and fifty such cases was studied in America, and the mortality, which is normally in the region of 100 per cent. when untreated, was reduced to 30 per cent. by administering nicotinic acid.

Involutorial Psychosis.—At the change of life some women break down and develop a mental condition known as menopausal or involutorial psychosis. The patient is irritable and obsessions and delusions are common. Claims have been made that good results are obtained by the treatment of such cases with oestrone (oestrin) or its synthetic analogues such as stilboestrol (or its propionate) or hexoestrol. The most optimistic reports have claimed success in more than 80 per cent. of the cases treated. Other workers have been unable to confirm this, and point out that routine medical treatment is just as effective.

Lawrie, J. P.—*Methane, Its Production and Utilisation*. 8*½* in. x 5*½* in. Pp. 66. 6s. Chapman & Hall, Ltd., 11 Henrietta Street, London, W.C.2. [In this thesis reviewing the occurrence, production, nature and uses of methane, for which a foreword has been written by Lord Strabolgi, the author reveals how this gas, which occurs naturally in considerable quantities in Great Britain, can be utilised as a fuel in internal combustion engines to replace petroleum. The technical problems of its use as a petrol substitute have been considered together with the cost of operating a scheme for compressing the gas for this purpose. Dr. Lawrie lays emphasis on the facts that the known natural supplies of the gas are substantial, are capable of development, and can, in addition to offering a substitute for petrol, provide a source of several chemicals, and affirms that the subject of its exploitation is one of extreme importance to this country.]

MACHINERY NOTES

S. W. Wilkinson & Co., Western Road, Leicester, advertise on another page a super-speedy ointment mill that combines the operations of mixing and grinding.

Stream-line Filters, Ltd., London, draw attention elsewhere in this issue to their laboratory and other filters, which were described at some length in the *C. & D.*, January 27, 1940, p. 65.

C. G. Harris & Son, Montague Road, Hounslow, Middlesex, are the inventors and manufacturers of the Eclipse counting apparatus for pills, tablets, etc. An illustration of the counter appears in the advertisement pages of this issue.

George Porteus & Sons (Leeds), Ltd., Leeds Bridge Works, Leeds, 10, advertise in this issue their Atlas mixers and sifters, which are substantially constructed for hard use and require little maintenance. The machines are made for a variety of specialised purposes, and the latest designs incorporate measuring devices to ensure absolute accuracy of mixings; automatic sprayers can also be fitted if desired. Inquiries regarding mixers, sifters and grinding machinery should be addressed to the company.

Manesty Machines, Ltd., Speke Hall Road, Liverpool, 10, have recently introduced into the Manesty range of automatic water-stills

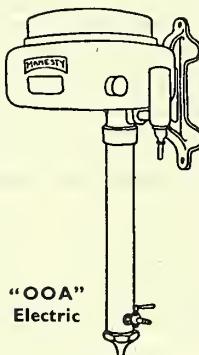
two new models: the Manesty OOA gas-heated and the Manesty OOA electrically-heated automatic water-still. Both are fitted with Pyrex inner baffles and Pyrex outer lids, which assist in giving a high-quality distillate, while trouble due to corrosion is eliminated. The OOA gas-heated model is now fitted with a Duoflam burner, and this has the double advantage of reducing gas consumption and increasing output. Tests have recently been made, and the gas consumption has been found to be 36 cu. ft. consumed for each gallon of distilled water produced, showing that distilled water can be produced at approximately 1½d. per gallon in places where the charge per therm is in the neighbourhood of 9d. The electrically-heated model is fitted with two horizontally-placed elements, each fitted with an automatic cut-out so that, should the water supply fail, the current is switched off. Placing the elements horizontally prevents scale formation, the cause of overheating of the element. The elements have

a consumption of three units per hour, and, with electricity at 1d. per unit, distilled water can be produced at approximately 1½d. per gallon. Both models are fitted with wall mounting-bracket, and each has an output of seven to eight pints per hour. The new OOA models are in addition to the OA gas- and electrically-heated models, which have an output of three pints per hour. All incorporate a detachable-feed water regulator of a new and replaceable type. In addition to the above there are eight further models available, with outputs ranging from three pints to fifty gallons per hour. The smaller models can be supplied for use with either gas, paraffin, or electric heating, the larger models being steam-heated. The general process of distillation in the Manesty range of automatic water-stills is as follows. The raw water enters at the bottom of the condenser, circulates round the heavily-tinned condenser tubes, and fills the boiling chamber to a height controlled by a feed-water regulator. The condensing steam preheats the raw water almost to boiling point before it enters the boiling chamber, and any dissolved gases are expelled into the atmosphere. The baffling has also had careful attention given to it in design, so that any entrainment of raw water is prevented from passing to the condenser. The amount of raw water used does not amount to more than eight times the resulting distillate, and thus economy in operation is assured. In addition to supplying distilled water the still yields overflow almost at boiling temperature, and in a number of instances good use has been found for the hot water supply thus provided. A feature of Manesty automatic water-stills is the easy accessibility to the boiling chamber, a feature that is of particular importance in hard-water districts, when it is necessary for the still to be descaled.

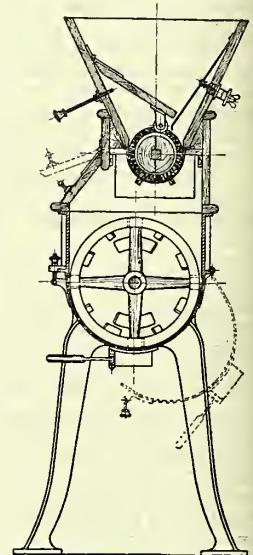
Brown & Son (Alembic Works), Ltd., Alembic Works, Wedmore Street, Holloway, London, N.19, are manufacturers of laboratory fittings and equipment, and of plant and machinery for drug-trade users. Among the types of apparatus offered are vacuum-drying models of vertical dressing- and utensil-sterilisers; horizontal vacuum-

dressing-sterilisers, mainly for hospital and manufacturing chemists' use; vacuum distillation sets; percolators of tin-coated copper, with perforated plate, tap, and lid; alcohol-recovery stills, for use with marcs, sawdust and similar solids; electric ball mills for bacteria and for grinding operations on a similar scale; steam-jacketed vacuum stills, and steriliser ovens with automatic (thermostatic) temperature-control. Special attention is drawn to a new and improved form of continuous-action extractor for herbs, drugs, etc.; this is operated on the still and soxhlet principle, with provision for recovery of solvent and concentration of extract. Another piece of apparatus that is decidedly economical in use is a tilting steam-jacketed pan designed for use where no steam boiler or steam service exists. Its own steam is, in this model, generated by gas burner. The inner pan is surfaced with vitreous, acid-proof enamel, and pressures up to 10 lb. per sq. in. are obtainable. The Alembic autoclave steriliser, issued by Messrs. Brown, is suitable for solutions and injections and designed to comply with the requirements of the British Pharmacopoeia. It is constructed of hard-drawn copper, with gun-metal cover and fittings, and, while intended for use at a working pressure of 10 lb. per sq. in., is guaranteed tested for a 100 per cent. overload. An illustrated catalogue of the various apparatus is available, for which application should be made to the makers at the address given.

William Gardner & Sons (Gloucester), Ltd., Bristol Road, Gloucester, England, have established a world-wide reputation for machinery of a specialised character, and particularly for the patent Rapid combined sifter and mixer. This is designed for reducing to a desired degree of uniform fineness and homogeneity, in a single operation, mixtures of dry and lumpy powders. There is an automatic feed which prevents choking of the sieve and brush; the brush itself may be either a patent crushing, breaking and reducing brush which breaks down to powder lumps formed in drugs, etc., or a patent gentle-action brush for discharging foreign matter from the sieve without crushing or grinding; and brush and sieve are both instantly removable for cleaning purposes. The internal agitator is reversible and, as can readily be seen from the accompanying sectional diagram, the base of the mixing chamber is easily let down for cleaning before a change of powder is made. Many varieties of powder marketed today demand the addition of perfumes or essential oils; for these, Rapid sifters and mixers are obtainable fitted with a patent spraying device that vaporises and injects the liquid at a point between the sifting and mixing chambers. Special interest attaches at the present time to small-scale machines suitable for use by pharmacists in retail business, and it may be noted that Messrs. Gardner list Rapid sifters and mixers of 30 lb. and 15 lb. capacity and Indispensable sifters and mixers of 14 lb. and 7 lb. capacity. Information about all models is given in a catalogue issued by the makers and illustrations of some of the larger machines are to be found in Messrs. Gardner's advertisement elsewhere in this issue.



Manesty OOA
electrically-heated
automatic water-still.



End section of Rapid sifter and mixer, showing (dotted lines) easy access to mixing-chamber.

Apex Construction, Ltd., Swan House, 133 Oxford Street, London, W.1, direct attention to the Uniflow dryers, which were specially designed for the drying of chemical and pharmaceutical substances, particularly in batch quantities. The material is spread on trays or screens and carried into the dryer on trucks, where drying is effected by a heated and recirculated horizontal air stream. High air-velocity, obtained by repeated cross circulation of the air, results in rapid drying, so that the output capacity of the dryers is large. Stagnant air pockets, in which humidity is high, and drying in consequence is nil, are eliminated. Operation at constant temperature is ensured by internal heaters. Consequently a minimum quantity of nearly-saturated air is exhausted, and the heat efficiency of the apparatus is high. The fans, which circulate the air, simultaneously removing saturated air and drawing in fresh air, are built inside the dryer. These volume fans reduce the horsepower required by the large cross-sectional area of the dryers and the short travel. The circulating air, after passing over the wet material, is passed through heaters and reheated to increase its drying capacity. Temperature and air saturation can be controlled to suit the materials, and outputs of dried materials are consistently and automatically obtained. Uniflow dryers are constructed of welded steel

roughout, with a heat-resisting asbestos casing, although other heat-resisting wall materials are utilised where suitable. They are compact, entirely self-contained units, rigid, and fireproof. Standard models are built for heating by steam, gas and electricity respectively. They are built in standard-sized units, to which other units may be added to increase the capacity. Standard dryers are built for manual temperature control, but automatic temperature control can be fitted if desired by the purchaser. The smaller series of dryers have built-in slides to take the trays; laboratory models are available. Trucks are of corrosion-protected welded construction, fitted with heavy-duty castors. The trays are available in acid-resisting enamelled steel, monel metal, stainless steel, or galvanised mild steel, in the following sizes: 32 in. \times 20 in. \times 1½ in. (3·5 sq. ft. each) and 35 in. \times 28 in. \times 1½ in. (6·8 sq. ft. each). Uniflow dryers are particularly useful where general drying has been carried out, and they can be adapted for bottle drying by utilising deep wire trays. The large number of substances for which these dryers are suitable is suggested by the following list of materials for which they are known to be in use: Aspirin, magnesium carbonate, potassium iodide, AR chemicals, calcium oxalate, bismuth carbonate, tablet analgesics, filter cakes, sodium tungstate, mercurous chloride, pharmaceutical powders, barium sulphate (x -ray), cobalt carbonate, zinc stearate, effervescent salts, dyestuffs, strontium oxalate.

TRADE NOTES

BONUS OFFER.—Menley & James, Ltd., 123 Coldharbour Lane, London, S.E.5, give details in their advertisement in this issue of bonus parcels available in connexion with Benzedrine brand inhalers.

FREED FROM PURCHASE TAX.—Glaxo Laboratories, Ltd., Greenford, inform us that Ostromalt is now no longer liable to purchase tax and they are prepared to refund to chemists the tax paid on stocks of this product. Maltoline has also become tax-free, but no refund can be made in this case.

HANLEY DRY SHAVER.—E. Siegrist (Dept. 17), 39 Berners Street, London, W.I., are able to supply the British-made Hanley A.C. dry shaver, and it is interesting to note that there will be no difficulty in getting spare parts should these be needed at some future date. Equally the dry shaver, which operates on voltages 200-220 and 230-250, is guaranteed for a year.

RATIONED CONFECTIONERY.—It is well known that manufacturers receive only 50 per cent. of their pre-war supplies of sugar and glucose, with the result that they have to ration their customers accordingly. Aramont Products, Ltd., Britannia House, Bradford, on another page of this issue, make suggestions regarding ordering which, in addition to affording the advantages mentioned, should ensure that the chemist obtains the supplies he is entitled to.

SACCHARIN TABLETS.—W. B. Cartwright, Ltd., Rawdon, Leeds, ask us to draw the attention of subscribers to the fact that there must be some considerable delay in the company's delivery of saccharin tablets, though orders are being filled as expeditiously as possible. Messrs. Cartwright state that their total output of saccharin tablets for February is now sold and they would prefer that orders for March delivery should not be sent to them for a little while.

GARDEN FERTILISERS.—S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, are the distributors of Acme garden aids for the drug trade. There is at the present time an unprecedented demand for fertilisers and other products used in gardening and chemists are in an extremely favourable position to supply these and to give advice on suitable products to use in particular circumstances. Acme products are regularly advertised in periodicals read by amateur gardeners, and chemists can link up with this publicity by displaying the various preparations and by means of counter booklets which can be supplied on request to stockists.

VITAMINS.—The announcement that the Ministry of Food had decided, on the advice of nutrition experts, to fortify white flour with vitamin B₁, has focused attention on the importance of this water-soluble vitamin. Many intractable conditions such as polyneuritis, sciatica, trigeminal neuralgia, and migraine have responded satisfactorily to treatment with vitamin B₁. In many cases it is advisable to resort to parenteral administration, and for this purpose Roche Products, Ltd., Welwyn Garden City, Herts, supply Benerva vitamin B₁ packed in ampoules each containing 2 mgm. pure aneurin. Each ampoule thus provides as much vitamin B₁ as is contained in from 2 to 3 lb. of wholemeal bread. There are also Benerva ampoules each containing 10 mg. pure aneurin and described as Benerva Forte. Vitamin C is also manufactured by Messrs. Roche Products on an industrial scale and it is available under the trade name Redoxon.

Business Changes

THE WHOLESALE DRUG TRADE ASSOCIATION now occupies offices at Tavistock House North, Tavistock Square, London, W.C.1. Telephone: Euston 4581.

PERSONALITIES

MR. T. G. LAWLEY, president, North Staffs Branch of the Pharmaceutical Society, has been appointed a platoon commander in the Home Guard.

MR. LINCOLN RIDEHALGH, Ph.C., M.P.S., Aylesbury Road, Salisbury, has retired after an unbroken period of thirty-two years as manager of the High Street, Salisbury, branch of Boots, Ltd. He will be succeeded as manager by Mr. C. O. Wand, M.P.S.

MARRIAGES

Notices for this column must be authenticated

GOODWIN—CAFFYN.—At St. George's Church, Headstone, Middlesex, on December 21, P. D. Goodwin, M.P.S., Chipperfield, 39 Somerset Road, Harrow, to Alice Mary Caffyn, Harrow.

DEATHS

CROLL.—Recently, Miss Agnes Muir Ferguson Croll, M.P.S., St. James Street, Paisley. Miss Croll, who qualified in 1929, was for some years secretary of the Paisley Chemists' Association.

DAVIDSON.—On January 23, Mr. Peter Davidson, Ph.C., aged eighty-two. Mr. Davidson was formerly in business at Brondesbury, London, N.

GREEN.—Recently, Mr. George Green, M.P.S., 264 Charlton Road, Kingswood, Bristol. Mr. Green passed the Minor examination in 1894.

GRIFFITHS.—At Bridgwater, on January 23, Miss Muriel Steadman Griffiths, M.P.S., aged thirty.

HENDERSON.—At Edinburgh Royal Infirmary, on January 22, Mr. John Conroy Henderson, Ph.C., aged fifty-five. Mr. Henderson was lecturer in pharmaceutics at Heriot-Watt College, a position he had held for about twenty years. He was also at one time associated with G. & M. Innes, Clerk Street. In his younger days Mr. Henderson was greatly interested in athletics, taking an active part in the affairs of the Edinburgh Northern Harriers Club and the Scottish Amateur Athletic Association.

Moss.—Recently, Mr. Charles H. Moss, Montalto, Gatley, Cheshire, formerly of Belfast. Mr. Moss served his apprenticeship with Clarke & McMullan (now Thomas McMullan & Co., Ltd.), wholesale chemists, Victoria Street, Belfast. Subsequently he represented the biscuit manufacturers, W. & R. Jacob, Ltd., Dublin, in Northern Ireland, and later Lever Brothers, Ltd., Port Sunlight. Mr. Moss was organist respectively in the Drew Memorial Church, Christ Church and Trinity Church, Belfast, and assistant organist in the old St. Anne's Church (now Belfast Cathedral), of which the late Mr. I. W. Nicholl, Ph.C., was organist.

RUSBY.—At Sarasota, Florida, on November 18, Mr. Henry Hurd Rusby, M.D., Ph.M., Sc.D., former president of the American Pharmaceutical Association, and honorary member of the Pharmaceutical Society of Great Britain, aged eighty-five. Dr. Rusby, after graduating from the University Medical College of New York University, made botanic expeditions through Arizona and New Mexico. Later he undertook similar expeditions in the service of Parke, Davis & Co. In 1884 he was sent to South America to make a study of the coca plant and other South American drugs and to secure supplies of them. From 1888 to 1930 Dr. Rusby was Professor of Botany, Physiology and Materia Medica in the Department of Pharmacy at Columbia University and the Dean of the Faculty. He was president of the American Pharmaceutical Association in 1909-1910 and served on the Revision Committee, seventh, eighth and ninth revisions, of the United States Pharmacopoeia. He was awarded the Hanbury Medal of the Pharmaceutical Society of Great Britain in 1929 and he had also received the Flückiger Medal and the Remington Honor Medal.

RECENT WILLS

MR. JOHN RAFFAN, M.B.E., J.P., F.R.S.A., M.P.S., 34 Albert Place, Stirling, a former Provost of Stirling, who died on October 2, 1940, left personal estate in Great Britain valued at £5,578.

MR. ALFRED MORGAN, M.P.S., Belmont, Prospect Road, Market Drayton, Salop, chemist, who died on October 26, 1940, left estate of the gross value of £12,256, with net personality £985.

MR. FREDERICK ARMAND CHAVENTRÉ, 289 Oxford Street, London, W.1 (Evan Williams Co., Ltd.), who died on October 6, 1940, left estate of the value of £58,792 gross, with net personality £53,048.

MR. ARTHUR HUMPHREYS, 98 Bishopthorpe Road, York, a director of Bleasdale, Ltd., and a former member of York City Council, who died on October 18, 1940, left estate of the gross value of £18,155, with net personality £17,459.

OL. VITAMINATUM (A & D)

(Conforming with 2nd B.P. Addendum)

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C. & D. STOCKTAKING PADPrice of Complete Pad, 2/6 post free from
The Chemist & Druggist, 28 Essex St., Strand, London, W.C.2**EXAMINATION RESULTS**

THE following are the results of the recent examinations of the Pharmaceutical Society of Great Britain. In the Pharmaceutical Chemist Qualifying examination held in London, thirteen candidates passed, two were referred. The following were successful:

Barnett, Dorothy M.	Hall, S. F.	South, D. H. W.
Brown, E. R.	Luton, R. T.	Woodhead, H. B.
Deeks, A. G.	Mitchell, J. V.	Woolgrove, L. H.
Foulds, H. W.	Smith, W. G.	

The following are the results of the examinations held in Edinburgh during January:—

Examination	Entered	Absent	Failed	Referred (One Subject)	Passed
Preliminary Scientific:—					
(a) Whole examination	14	0	8	3	3
(b) Referred subject ..	7	0	—	0	7
Chemist and Druggist Qualifying:—					
(a) Whole examination	37	6	14	9	8
(b) Referred subject ..	21	1	—	5	15

The following is a summary of rejected candidates:—

Subject	Entered	Absent	Referred	Failed
Biology (botany and zoology)	13	15	0	0
Botany (botany section only)	2	0	0	7
Chemistry	16	0	1	8
Physics	18	0	2	7
Pharmacognosy	44	6	2	7
Pharmaceutics	47	6	8	13
Physiology	37	6	0	11
Pharmaceutical chemistry	39	6	4	13
Forensic pharmacy	37	6	0	9
Dispensing only	2	7	0	0

The following have satisfied the examiners in the Chemist and Druggist Qualifying examination:—

Bahr, F. H., Liverpool	Rawlinson, R., Rossendale
Barr, J., Dunfermline	Reston, J. W., S. Shields
Campbell, Marion F., Doune	Roberts, I., Towyn
Crofts, E. L. S., Birmingham	Robertson, C. W., St. Andrews
Evans, D. G., Liverpool	Smith, Catherine A., Bradford
Hannon, J., Annfield Plain	Snowdon, F. M., Willington
Humphrey, A., Sunderland	Stewart, K., Stockton-on-Tees
King, Iris M., Fochabers	Sumner, J. J., Preston
McGregor, A. G., Aberfeldy	Thomas, A. E., Wallasey
McWilliam, J. S., Edinburgh	Walker, D., Edinburgh
Parry, W. T., Liverpool	Wiggin, V. J., Burnley
Pollard, R., Preston	

In the Pharmaceutical Chemist Qualifying examination six candidates passed, one failed, and three were referred. The following were successful:—

Chanter, W. H.	Precious, R.	Tweedell, J. G.
Musson, E.	Somerville, J. C.	Wright, C. L.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

for RETAILER — WHOLESALER — MANUFACTURER

Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, The British Empire and all foreign countries

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

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Quota Ethics

DURING a long period of peace and settled conditions the relations between wholesaler and retailer, and between one manufacturer or wholesaler and another, became, on the whole, well-defined and stable. There are signs, however, that the Limitation of Supplies (Miscellaneous) Order, 1940, has introduced problems which, if not amicably settled on a rational basis, may have the effect of vitiating those relations. An initial difficulty resulting from the Order has been that while, according to an explanatory memorandum issued by the Board of Trade, the Order is aimed at diverting labour from production of non-essential goods to that of vital war supplies, the restrictions are imposed upon "supplying" the goods. Thus it is possible for a manufacturer to have his warehouses packed to capacity with toilet specialities, of which he cannot sell in the home market more than a quarter his normal output, in value, and which may, for various reasons, be unsuitable for export. A manufacturer of beauty preparations has in fact stated in the public Press ("Daily Express," January 24) that this has been the case with his own business. One way out of this difficulty adopted by some manufacturers has been to purchase the quota of others—a practice permitted under the Order, since "all registered persons may supply without restriction any class of controlled goods to any other person whose name is included on the Register for that class of controlled goods." Advertisements containing phrases such as "prepared to consider offers of quotas of small or large lots," "prepared to purchase quota for present period," have become familiar in the columns of THE CHEMIST AND DRUGGIST. Unless, however, the number of those who desire to buy equals the number of intending sellers, the procedure provides no final solution to the problem. Moreover, the Order applies to wholesalers as well as to manufacturers, and if a manufacturer should make a bid for a wholesaler's quota, other manufacturers who may have marketed their products through the same wholesaler are faced with an unexpected difficulty, possibly demanding solution at short notice. That this is not a hypothetical difficulty is shown by the report on a recent Council meeting of the Proprietary Articles Trade Association (C. & D., January 25, p. 48), which makes reference to "representations from manufacturers regarding the policy of other manufacturers endeavouring to obtain allocations of wholesalers' quotas." It may be noted from the report that the Council of the Association "deprecated purchase and sale of quotas" but found itself powerless to take action.

Another aspect of the problem has been the decision of certain large distributors to cease handling general proprietary goods, reserving their quotas for goods of their own manufacture. Related to it, also, is the endeavour on the part of manufacturers with highly organised sales staffs or of agents engaged mainly in distributing proprietary toilet preparations to secure the distribution of non-quota products. All these practices appear logical and proper to the parties concerned, yet they may impinge in unexpected ways on the interests of other sections of the trade, and if friction within the trade is to be kept at a minimum the

best brains in the various organised bodies will need to be on the alert to consider the effects of these developments.

It need cause little anxiety to manufacturers that retail chemists are taking advantage of the shortage of advertised goods to prepare and market their own. There are good reasons why it is impossible for retailers to create sufficient demand for their own branded specialities to challenge world-famous products, even supposing the restrictions were removed tomorrow. It is true that "the retailer who is not engaged in manufacturing or wholesaling is not required to register," and "a person shall be deemed not to be carrying on the business of supplying any class of controlled goods" unless his turnover in any month reaches £167 in a month. But the latter figure, though the retailer might consider himself lucky who achieved anything like this turnover with his newly-launched preparations, is a sufficient safeguard to the proprietors of branded specialities that their business is not menaced.

One practice all must deplore—namely the reported procedure of certain representatives who, with supplies in their own vehicles, allocate varying quantities to their retail customers. Surely the feeling of the country today demands that, where supplies must, by reason of the nation's emergency, be restricted, they should at least be distributed in an equitable manner.

"C. & D." Retail Price List

IT has been one of the main points of our editorial policy to keep the trade fully advised of the constantly changing conditions under which business may be carried on in war-time. The many trade restrictions, such as the Prices of Goods Act, Purchase Tax and Limitation of Supplies, have been dealt with and their operation fully explained. When considered desirable special publications in the form of supplements and pamphlets have been issued. Present trading conditions now make it necessary to withdraw from circulation for the time being the C. & D. Retail Price List. This list of products, which are commonly sold over the counter, specified (1) current wholesale prices and, based on these values, (2) retail sales prices of small quantities. Thus retailers were provided with details of fluctuations in wholesale values and their effect on current retail prices. This system was based on the normal commercial practice of retail prices moving up or down in sympathy with current wholesale costs.

With the introduction of the Prices of Goods Act, the provisions of which apply to the products specified in the C. & D. Retail Price List, it is no longer permitted to base retail sales prices on *current* wholesale values. The former must now be fixed on the actual prices paid at the time of purchase wholesale and the amount of net profit should not exceed that obtained on similar retail sales prior to the war. For instance, a retailer may have purchased some months ago a bulk supply of a product at, say, 3s. per lb. Some of this stock may still be unsold and the wholesale cost may have increased to 4s. per lb. He is not permitted, as hitherto, to increase his retail sales price accordingly but must sell on the basis of actual cost, *plus* normal pre-war profit, and, if justified, certain small additional allowances. On the other hand, if, in the interval between purchase and retail sale the wholesale price has declined to 2s. per lb., he is entitled to maintain his sales price on the basis of cost of 3s. per lb. As things are today each individual retailer must fix the retail price of each product on his purchase cost, and having done so such selling price should be static so long as the goods sold over the counter are drawn from that particular wholesale purchase. When new supplies are ordered, at a higher or lower figure and drawn on, then he has to adjust his sales price accordingly. Consequently it is not possible to define standard scales of retail prices and the publication of the C. & D. LIST OF RETAIL PRICES FOR DRUGS, CHEMICALS AND GALENICALS has accordingly been withdrawn. It is our intention to revive this hitherto useful list immediately conditions return to normal. The same difficulty does not arise in connexion with the C. & D. DISPENSING LIST. This publication is now being completely revised and brought up to date and will be issued at no distant date.

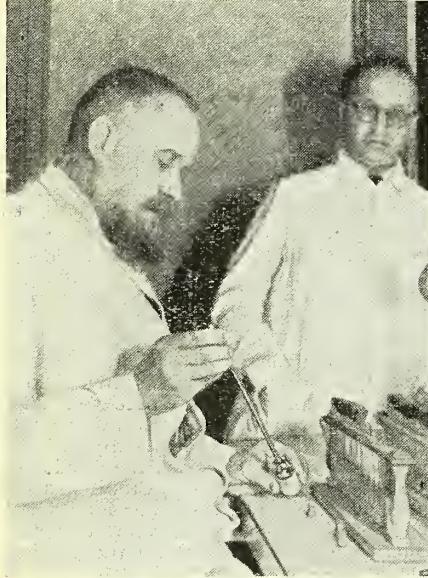
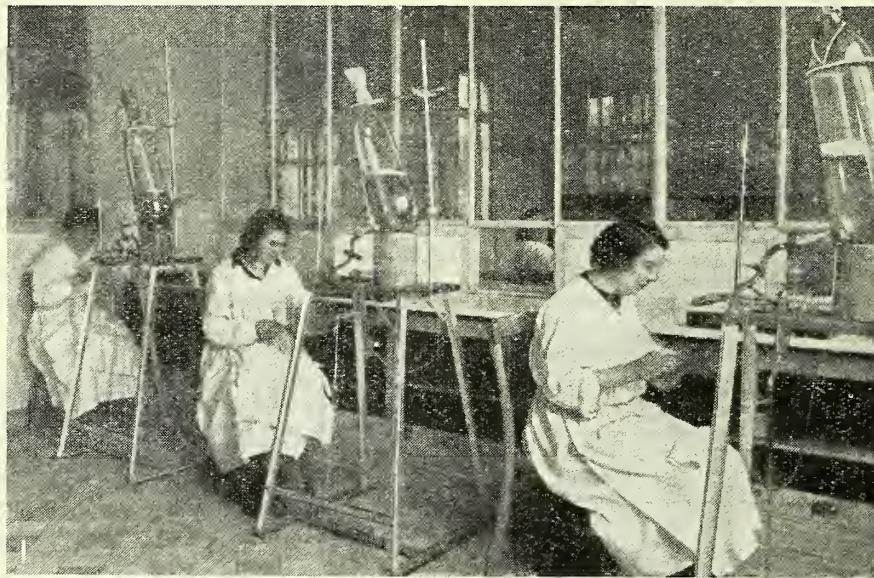
Price Cutters Feel the Knife

One of the less predictable by-effects of the war has been a substantial reduction in the activities of the price cutters—a fact to which reference was made at a recent meeting of the Council of the Proprietary Articles Trade Association (C. & D., January 25, p. 48). The cause has been not solely—or even mainly—the rain of bombs that falls on the unjust as indiscriminately as on the just. A number of price-cutting traders are known to have been put out of action in this way, but the production quota for manufacturers of toilet preparations has been the potent factor. It is satisfactory to note that many stop-listed traders have seen fit to reach agreement with the P.A.T.A. As time goes on, the difficulties of obtaining supplies are likely to grow, and it might have been possible to look forward to a complete cessation of price-cutting activities, were it not for one factor. This is that the results of the aerial war have made traffic in stolen goods considerably easier than in normal times, and the constant vigilance of the P.A.T.A. in its price-maintenance will continue to be essential if the livelihood of chemists is to be safeguarded.

ANTI-TETANUS SERUM PRODUCTION

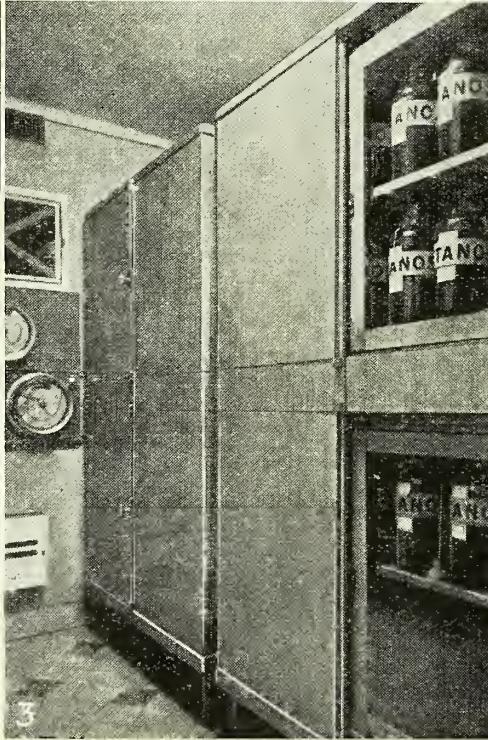
WAR-TIME conditions have enormously increased the demand for anti-tetanus serum. The method of preparation followed at one of the principal production centres is described below. Production is in two stages: first of "anatoxin"; secondly of serum proper, from the anatoxin. For the first process a culture bouillon is prepared in which a toxin of high antigen properties can be obtained. For this bouillon, beef is macerated for twenty hours in water in a cold chamber. After filtration, the filtrate is mixed with half its volume of laboratory peptone (prepared from boiled beef, water, hydrochloric acid and pig-belly mucus) and half its volume of water. The mixture is digested for twenty-four hours at 56° C., filtered, and sterilised in an autoclave. To each litre are added 10 gm. of sodium chloride and 12 gm. of glucose. The mixture is heated to 80° C., and brought to pH 5.8 by addition of a suitable quantity of 10 per cent. sodium hydroxide.

and formol converts the toxin, as produced in the culture medium by the bacteria, to a form to which the name anatoxin has been given; this substance retains the antigen properties of the original toxin, but has lost all toxic properties, so that it can be injected without danger of complications, even in large doses. A certain proportion of anatoxin is put up for use as vaccine, the remainder being used for production of serum. In this, horses are used. Each horse is given an initial injection of 20 c.c. of tetanus anatoxin with tapioca. A second injection of 60 c.c. anatoxin is administered on the sixth day, followed on the tenth by 100 c.c. and on the fifteenth by 150 c.c., in each case mixed with tapioca. Subsequent injections are of pure toxin with tapioca (250 c.c. on nineteenth day, 350 c.c. on twenty-fourth day, and 450 c.c. on twenty-ninth day). On the thirty-eighth day, seven litres of blood are drawn. The blood is set in jars containing

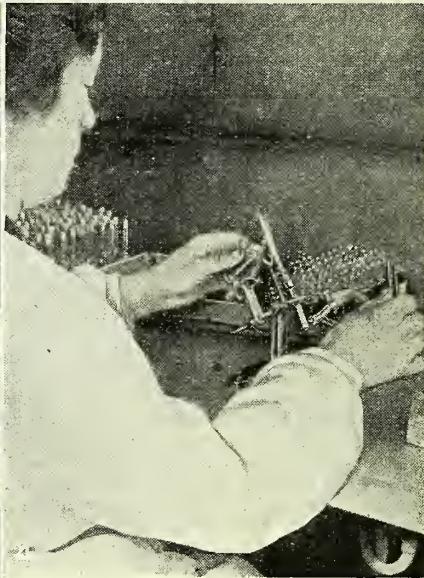


1. Filling tubes of tetanus antitoxin in the finishing department at a serum-production centre.

2. Carrying out a titration of tetanus antitoxin in the laboratories.



3.

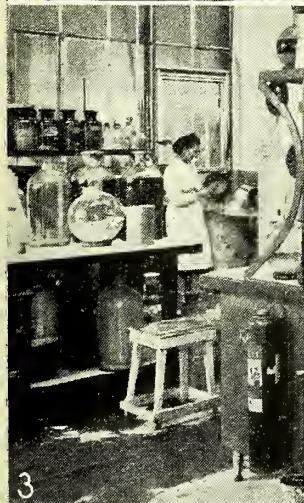


3. Hot cabinets for transformation of tetanus toxin into anatoxin under "mitigated heat" during a period of thirty days.

4. Sealing tubes of antitoxin ready for packing and dispatch.

solution. This is poured into bottles containing about two litres each, and powdered cooked red corpuscles added before sterilisation for thirty minutes at 115° C. Each bottle of medium is, after cooling, planted with a sample of tetanus bacillus, known as culture R, and is then allowed to stand in a hot cabinet for eleven days at 37° C. At the end of this period, the liquid is filtered through porcelain candles. The average antigen value of the toxin produced by this method is between 20 and 30 units. To it is added 2.75 c.c. of formol per litre, and the mixture stood away in a hot cabinet at 39° C. for thirty days. The treatment by mitigated heat

about three litres each, to permit separation of serum from solid matter, the clotted solid matter being forced to the bottom of the jar by placing an iron weight on it. When separation is complete, the serum is siphoned off into jars of about ten litres capacity, and samples are taken for test. This method permits the production of serums having an average value of about 4,000 international units per c.c. and in some cases as much as 10,000 units per c.c. Production of anatoxin is designed to result in a product having an antigen value of 20 to 40 international units per c.c.

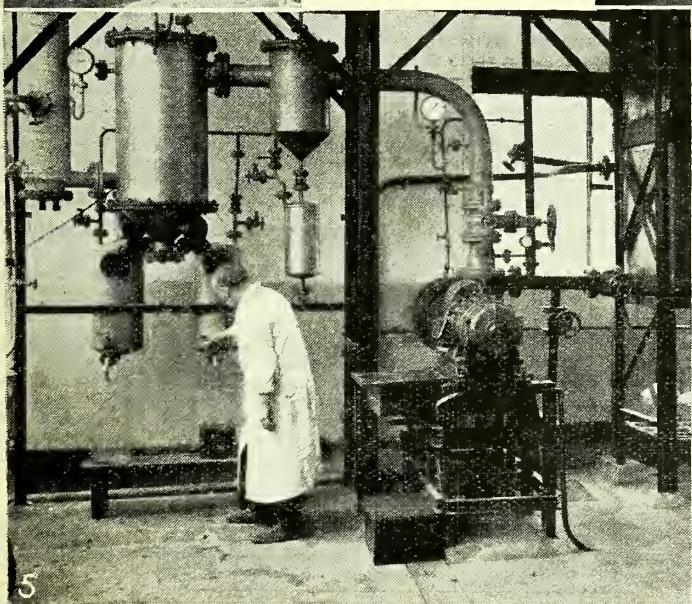
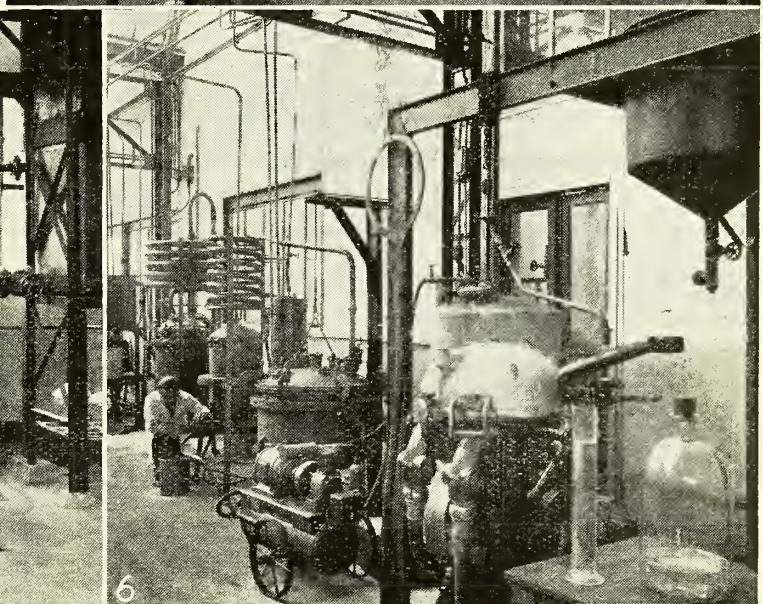
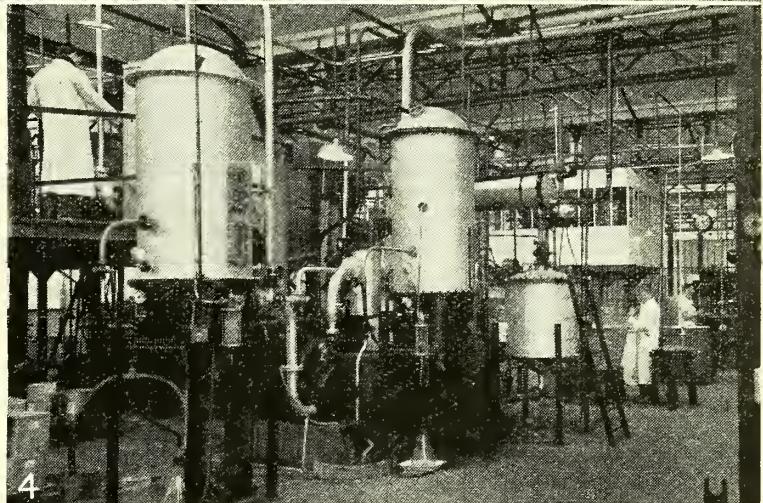


HORMONE EXTRACTION

Pictures show processes in the preparation of sex hormones

1. Solvent works (cholesterol production).
2. Autoclave used in preparation of testosterone.
3. Laboratory for the production of testosterone.
4. Manufacture of biological preparations.
5. Concentration of urinary extracts for folliculine preparation.
6. Stills used in folliculine production.

Photos by courtesy Roussel Laboratories, Ltd.



5

6

TRADE REPORT

Spot quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise in the present emergency

28 Essex Street, W.C.2, January 29

REPORTS from most markets indicate that trade has continued on a moderate scale during the past week. Values of some commodities that are in short supply show a tendency to rise, but on the whole prices are fairly steady. Business in the PHARMACEUTICAL CHEMICALS markets continues up to about recent average, but a rather better inquiry is noted. CAFFEINE continues short and extremely firm. An advance in the price of GLYCERIN is noted. MAGNESIUM TRISILICATE and METHYL SALICYLATE are steady at the advances recorded last week. Values of SALOL continue firm. SULPHANILAMIDE is selling steadily at previously reported figures. THEOBROMINE is in poor supply and values are high. British makers' quotations for VANILLIN are unchanged.

Crude Drugs

The volume of business reported this week has been fair, and conditions remain very firm. Business has been transacted in small lots of AGAR, but stocks are now very limited. There has been a fair demand for ALOES, which, however, continues to sell at unchanged prices. ANTIMONY is a rather slow market, but values are steady. Quiet conditions are reported for BALSAMS. A rather better demand is noted for BENZOIN. Spot stocks of BUCHU are firmly held and there are still no offers of the new crop. Rather more inquiry is noted for Japanese CAMPHOR tablets, but spot supplies are difficult to find. Spot values of COCHINEAL are maintained at the slightly higher figure quoted last week. DAMIANA LEAVES are reported to be in fair supply. GINGER continues firm on spot. GUM ACACIA has been in quiet demand with quotations unaltered. The market for Matto Grosso IPECACUANHA is reported easier, but the Minas variety is firmer. MENTHOL continues firm and in fair demand. All grades of OLIBANUM are reported dearer on account of lack of supplies. PEPPERS are steady. SENEGA continues to be firmly held on spot. The position of SENNA is unchanged. Scarcity of the finer grades of TRAGACANTH has resulted in higher values for the medium grades.

Essential Oils

Dealers report rather quiet conditions, the majority of orders being for small quantities. English expressed ALMOND continues firm at the prices quoted last week. ANISE (STAR) is very firm. Importers' quotations for AVOCADO PEAR are unaltered. Some occasional small business is being done in BAY. The position of BERGAMOT is unaltered; spot prices remain a matter for negotiation. BOIS DE ROSE is steady, but not much business is moving. CAJUPUT continues firm, and inquiry is fair. Prices of CASSIA remain firm. Spot quotations for Californian distilled LEMON are nominal; values of the Sicilian product remain a matter for negotiation. LEMONGRASS is firm. Controlled prices of LINSEED and OLIVE are unaltered. Chinese PEPPERMINT continues in good inquiry, but spot stocks are limited.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:

Centre	Quoted	Par	January 22	January 29
Belgian Congo ..	Francs to £	nominal	176 ⁸ *	176 ⁸ *
Buenos Aires ..	Paper pesos to £	—	17 ⁰² *	17 ⁰⁴ *
Java ..	Florins to £	12 ¹⁰ 7	7 ⁶⁰ *	7 ⁶⁰ *
Lisbon ..	Escudos to £	110	100 ⁰⁰ *	100 ⁰⁰ *
Madrid ..	Pesetas to £	25 ²⁴ 1	{ 40 ⁵⁰ official 40 ⁵⁵ voluntary	40 ⁵⁰ official 40 ⁵⁵ voluntary
Montreal ..	Dollars to £	4 ⁸⁶ 8	4 ⁴⁵ *	4 ⁴⁵ *
New York ..	Dollars to £	nominal	4 ⁰³ *	4 ⁰³ *
Shanghai ..	Per dollar	—	3 ⁸⁰	3 ⁸⁰
Stockholm ..	Kronor to £	18 ¹⁵ 0	16 ⁹⁰ *	16 ⁹⁰ *
Yokohama ..	Per yen	2s.	1s. 2d.	1s. 2d.
Zurich ..	Francs to £	22 ²¹ 15	17 ³⁵ *	17 ³⁵ *

* Rate fixed by Bank of England. Bank rate, 2 per cent.

Pharmaceutical Chemicals, etc.

RATHER better inquiry is reported, the general tone remaining steady. Makers' prices are mostly unchanged. An increase is noted in the price of glycerin.

ACETANILIDE.—Steady but quiet. B.P.C. crystals and powder quoted unchanged at from 2s. 4d. to 2s. 6d. per lb., according to quantity.

AMIDOPYRINE.—Dealers' quotations continue firm. Crystals, one-cwt. lots, 2s. 6d. per lb.; smaller lots, up to 30s. per lb.; powder, 3d. per lb. extra.

ASPIRIN.—Makers' scales of prices continue steady:—

Quantity	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
1 lb. and under 4 lb. ..	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
4 lb. and under 7 lb. ..	3 10 ¹	3 9	—	—	—	—
7 lb. and under 14 lb. ..	3 9 ²	3 8	3 7 ¹	—	—	—
14 lb. and under 28 lb. ..	3 8 ²	3 7	3 6 ²	3 6 ¹	—	—
28 lb. and under 1 cwt. ..	3 7 ²	3 6	3 5 ²	3 5 ¹	3 5	—
Not less than 1 cwt. ..	2 11 ²	2 10	2 9 ²	2 9 ¹	2 9*	2 8 ²
Not less than 5 cwt. ..	2 11	2 9 ¹	2 9 ²	2 8 ²	2 8 ¹	2 8
Not less than 10 cwt. ..	2 10	2 8 ²	2 8 ¹	2 7 ¹	2 7 ² *	2 7

* 8 × 14 lb. and upwards in one delivery, 1d. per lb. less.

Sale is subject to an undertaking on part of buyer not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made, and, if aspirin is converted into tablets, not to sell any number at prices or terms below scale current at time of sale.

ASPIRIN TABLETS.—Makers' scales of prices for bulk quantities are unchanged: Under 5,000, 3s. 1¹d.; 5,000, 2s. 11¹d.; 10,000, 2s. 10¹d.; 25,000, 2s. 8¹d.; 50,000, 2s. 7¹d.; 100,000, 2s. 6¹d.; 250,000, 2s. 6d.; 500,000, 2s. 5¹d.; 1,000,000, 2s. 4¹d.; 2,000,000, 2s. 3¹d. per 1,000. All bulk sales are subject to re-sale clause.

ATROPINE.—Makers' prices steady. ALKALOID, 21s. per oz.; 4 oz., 20s. 6d. and 25 oz., 20s. per oz. SULPHATE, 16s. 6d. per oz.; 4 oz., 16s., and 25 oz 15s. 6d. per oz. Bottles, under 5-gm. or 1-oz., 3d.; stoppered, 5d.; 5-gm. to 25-gm. or 1-oz., corked, 3¹d.; stoppered, 6d.; 25-gm. or 1-oz., corked, 3d.; stoppered, 7¹d.; 50-gm. or 2-oz., corked, 4d.; stoppered, 9d. each; 100 gm and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d. 15-gr., 14s.

BARBITONE.—Firm. One cwt., about 24s. per lb.; smaller quantities, about 27s. 6d. to 30s. per lb.

BENZOIC ACID (B.P.)—Only small supplies are available; demand is good. Quotations remain at about 2s. 6d. to 3s. per lb. nominal.

BORAX (B.P.)—Makers' prices are as follows: Granulated, £34; crystals £35; powder, £35 ros. per ton, in 1-cwt. bags, carriage paid in Great Britain for minimum one-ton lots. Commercial qualities, £8 per ton less.

BORIC ACID (B.P.)—Makers' prices steady: Granulated, £50 10s.; crystals £51 10s. per ton, for minimum one-ton lots, in 1-cwt. bags, carriage paid in Great Britain. Commercial qualities, £8 per ton less.

CAFFEINE.—In short supply and firmer. Importers are quoting up to 52s. 6d. per lb. for ALKALOID. CITRATE.—Also in short supply, and valued at about 27s. to 32s. per lb.

CALCIUM LACTATE.—Business is quiet, but makers' price continues steady at 1s. 8d. per lb. for small quantities.

CITRATES.—Steady and unchanged at makers' prices:—

POTASSIUM, B.P.	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb. ..	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
4 lb. and under 7 lb. ..	3 0	2 10 ¹	—	—	—	—
7 lb. and under 14 lb. ..	2 11 ²	2 9 ¹	2 8 ²	2 8 ¹	2 7 ¹	—
14 lb. and under 28 lb. ..	2 10	2 8 ²	2 7 ¹	2 7 ²	2 6 ¹	2 6 ¹
28 lb. and under 1 cwt. ..	2 9	2 8 ²	2 6 ¹	2 6 ¹	2 5 ¹	2 5 ¹

SODIUM, B.P., one penny per lb. below corresponding prices for POTASSIUM, B.P. IRO AND AMMONIUM (SCALES), B.P., threepence per lb. above corresponding prices for POTASSIUM B.P. Prices net. All packages charged extra. It is a condition of sale that buyers undertake not to re-sell at prices below the values given. 28-lb. tins charged 2s. each.

CITRIC ACID (B.P. CRYSTALS).—Makers' nominal price to home consumer continues at 1s. 2d. per lb., less 5 per cent. discount.

CREAM OF TARTAR (B.P.).—A nominal price of 20s. per cwt., less 2½ per cent. discount is quoted by one maker, and supplies are restricted to regular consumer customers. Another maker states that small deliveries are being made on the basis of 25s. per cwt.

CREOSOTE (BEECHWOOD).—Dealers continue to quote bulk quantities, i.e. 25-kilo demijohns, at approximately 7s. 6d. per lb.

EMETINE HYDROCHLORIDE (B.P.).—There has been no change in makers' prices which range between 10s. and 10s. per oz., according to quantity.

EPHEDRINE HYDROCHLORIDE (B.P.).—Quotations for ordinary quantities remain at about 7s. to 8s. per oz. Lots of 1,000 oz. are at a slightly lower figure.

GLYCERIN.—The price has been increased by 5s. per cwt., making the basic rates for chemically pure, B.P., 67s. 6d. per cwt., and for single-distilled pale straw, 62s. 6d. per cwt., less 2½ per cent., delivered in 10-cwt. drums. The usual differences will apply for smaller packages, etc. The increase take effect on authorities for delivery dated for February 1 and onwards, and is due to extra costs incurred in manufacture, distribution, etc., since the outbreak of war. The last change in price was announced on March 3, 1939.

GUAIACOL.—Firm and in small supply. Crystals and liquid quoted by dealers at about 12s. 6d. per lb.

LACTIC ACID.—Quiet and unchanged. One-cwt. carboys, about 1s. 8½ per lb.; winchesters and bottles, about 1s. 9d. to 2s. per lb., ex store, according to quantity.

MAGNESIUM TRISILICATE.—Steady at the recent advance:—

Quantity	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
1 lb. and under 4 lb. ..	s. d.					
4 lb. and under 7 lb. ..	3 4	3 2 ¹	—	—	—	—
7 lb. and under 14 lb. ..	3 3	3 1 ²	3 1 ¹	3 1 ¹	3 1 ¹	—
14 lb. and under 28 lb. ..	3 2	3 0 ²	3 0 ²	3 0 ²	2 11 ²	2 10 ²
28 lb. and under 1 cwt. ..	3 1	2 11 ²	2 11 ²	2 11 ²	2 10 ²	—
Not less than 1 cwt. ..	2 10 ²	2 10 ²	2 10 ²	2 10 ²	2 9 ²	2 9 ²
Not less than 5 cwt. ..	2 8	2 6 ¹	2 6 ¹	2 6 ¹	2 5 ¹	2 5 ¹
Not less than 10 cwt. ..	2 6	2 4 ¹	2 4 ¹	2 4 ¹	2 3 ¹	2 3 ¹
Not less than 20 cwt. ..	2 4	2 2 ¹	2 2 ¹	2 2 ¹	2 1 ²	2 1 ²

Contracts may be booked for 1 cwt. and over, with rise-and-fall clause. It is a condition of sale that buyers undertake not to re-sell at prices under scale for such quantities current at time re-sale is made. Packages returnable and extra.

MERCURIALS.—Controlled prices continue unchanged:—

Mercury Compound	Over 7 lb. but less than 28 lb.	28 lb. and over but less than 1 cwt.	1 cwt. and over but less than 2 cwt.	2 cwt. and over but less than 5 cwt.	5 cwt. and over
chloride, powder ..	s. d.	s. d.	s. d.	s. d.	s. d.
chloride (industrial users) ..	12 8	12 3	12 3	12 2	12 0
chloride, lump ..	12 8	12 4	12 3	12 1	11 11
ammonium chloride, powder ..	13 3	12 11	12 10	12 9	12 6
ammonium chloride, lump ..	14 7	14 3	14 2	14 1	13 7
chloride (mercurous) ..	14 5	14 1	14 0	13 11	13 5
ide, red crystalline, B.P. ..	15 0	14 8	14 7	14 6	14 4
ide, red levigated, B.P. ..	16 9	16 5	16 4	16 3	16 1
ide, red technical ..	16 3	15 11	15 10	15 9	15 9
ide, yellow levigated, B.P. ..	16 2	15 10	15 9	15 8	16 8
ide, yellow technical ..		All quantities—	15s. per lb.		
		All quantities—	15s. per lb.		

Packages free for quantities of 28 lb. and over; delivery free on orders of £20 and over.

MERCURY IODIDES.—Makers' prices per lb. are as follows: RED, less than 1 lb., 17s. 8d.; not less than 7 lb., 17s. 4d.; not less than 14 lb., 16s. 1d. GREEN: less than 7 lb., 19s. 6d.; not less than 7 lb., 19s. 2d.; not less than 14 lb., 18s. 8d. YELLOW, less than 7 lb., 21s. 3d.; not less than 7 lb., 20s. 1d.; not less than 14 lb., 20s. 5d. net, carriage paid.

METHYL SALICYLATE.—Makers' quotations steady at the recent advance, follows: Five cwt. 1s. 8½d.; one cwt., 1s. 9d.; small quantities, in bottles, 1½d. per lb.

PHENAZONE.—Quiet, and quoted unchanged. Dealers' prices are at about s. per lb. for bulk quantities, with smaller lots at up to 22s. per lb.

PHENOLPHTHALEIN.—Steady at the recent advance, as follows: Less than 1 lb., 4s. 2d. per lb.; 7 lb., 4s. 1d.; 14 lb., 4s.; 28 lb., 3s. 1d.; one cwt., 3s. 1d.

QUININE.—Sulphate continues to be quoted at 59.85 American dollars per oz., f.o.b. Java. The sterling price, at current rate of exchange, would be £14 17s. 5d. per 100 oz., f.o.b. Java.

RESORCIN.—Makers' prices show no change: Not less than 7 lb., 7s. 3d. per lb.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 1d.; not less than 1 cwt., 6s. 9d. Dealers' prices for any spot material available would be about 8s. 6d. 9s. per lb.

SACCHARIN.—Duty-paid Convention price for 550 continues unchanged at s. 4d. per lb. Neither wholesale nor retail prices are under Government control.

SALOL.—Values continue firm at about 6s. 9d. to 7s. 6d. per lb., according to quantity.

SANTONIN.—Convention prices are as follows: 15 kilos and over, £35 10s.; not less than 10 kilos, £36 5s.; not less than 5 kilos, £37; less than 5 kilos, 18 per kilo, delivered free in the U.K.; 1-kilo tins free.

SODIUM BARBITONE.—Current quotations are as follows: One cwt., about s. per lb.; smaller quantities, about 27s. 6d. to 30s. per lb.

STRYCHNINE SALTS.—British makers' prices per oz. are as follows:—

	Under 100 oz. and under 500 oz.	100 oz. and over		Under 100 oz. and under 500 oz.	100 oz. and over	500 oz. and over
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	s. d.	s. d.	s. d.		s. d.	s. d.	s. d.
alkaloid, crystalline ..	3 0	2 10½	2 9	Nitrate, powder ..	2 9½	2 8	2 6½
precipitated ..	3 0	2 10½	2 9	Phosphate .. No. 2 ..	2 3	2 1½	2 0
cetate ..	3 2½	3 1	2 11½	Sulphate, neutral ..	3 7½	3 6	3 4½
rhenate ..	3 1	2 11½	2 10	crystalline ..	2 6	2 4½	2 3
rhenite ..	3 2½	3 1	2 11½	Sulphate, neutral ..	2 6	2 4½	2 3
isulphate ..	2 4½	2 3	2 1½	powder ..	2 6	2 4½	2 3
hydrochloride ..	2 9½	2 8	2 6½	Sulphate, neutral ..	2 1	1 11½	1 10
yrophosphate ..	5 6	5 4½	5 3	powder No. 2 ..			
nitrate, crystalline ..	2 9½	2 8	2 6½				

5-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms etc thirty days. Wholesale distributors' prices for small quantities would be dearer.

SULPHANILAMIDE.—Business on a fair scale, with quotations steady. Spot value remains at about 10s. 6d. to 11s. per lb., according to quantity.

SULPHONAL.—Dealers' spot prices continue firm at about 34s. to 37s. 6d. per lb., according to quantity.

TARTARIC ACID (B.P. CRYSTALS).—Makers' quotation continues unchanged and nominal at 2s. 6½d. per lb., less 5 per cent. discount. Supplies are reserved or regular consumer customers. Any foreign material would be worth about s. per lb.

THEOBROMINE.—Supplies continue poor. Prices of imported material appear to vary between 45s. and 60s. per lb. THEOBROMINE SODIUM SALICYLATE.—About 35s. to 37s. 6d. per lb. is mentioned for British-made from imported theobromine.

VANILLIN.—British makers' prices are unchanged: Ex clove oil or guaiacol, 1½ cwt., 15s. 6d. per lb.; one cwt., 15s. 7½d.; 56 lb., 15s. 9d.; less than 56 lb., 6s., carriage paid in the U.K. Tins in cases are now returnable to makers.

Crude Drugs, etc.

A FAIR general trade is reported in these commodities, and conditions continue very firm.

AGAR.—Some business is reported done in small lots; stocks are now limited. Spot, Kobe No. 1, 18s. per lb.; Kobe No. 2, 17s.; and Yokohama No. 1, 17s. per lb.

AOLES.—A fair demand is noted for Curaçao. Spot continues to be quoted at about 330s. to 350s. per cwt., ex store, according to quantity. The last price reported from New York was 300s. per cwt., c.i.f. Cape, steady and unchanged at between 57s. 6d. to 60s. per cwt.

ANTIMONY.—Demand is rather slow; values are steady at the lower rates recorded recently. English, 99 per cent., £85 per ton, delivered; foreign regulus, £88 to £91 per ton, ex warehouse, duty paid; Chinese, for prompt shipment, £76 to £80 per ton, c.i.f.

BALSAMS.—Market remains quiet, but values are steady. Tolu, spot, 8s. per lb.; softish, 7s. 6d. per lb.; Canada, 7s. 6d. to 8s. per lb.; Copaiba, B.P., 3s. 6d. to 3s. 9d. per lb.; Peru, 7s. 9d. per lb.

BELLADONNA.—English-grown leaf would be worth about 4s. 6d. per lb. Some Indian root is expected to arrive shortly.

BENZOIN.—Rather better business has been done this week. Spot, Sumatra, unchanged at from £5 10s. to £6 15s. per cwt., ex store.

BUCHU.—Spot continues to be firmly held for about 3s. 5d. per lb.; there are still no offers of new-crop leaves.

CAMPHOR.—Rather more inquiry is noted for Japanese tablets, which are difficult to locate on spot; slabs would be worth about 5s. 2d. per lb., and flowers, about 5s. 4d. per lb. Continental synthetic is quoted unchanged; Powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English refined, steady as follows: Flowers, one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb. Transparent tablets, 4 oz.: one cwt., 6s. 9d.; 28 lb., 6s. 10d.; less than 28 lb., 6s. 11d. per lb.

CANTHARIDES.—Although demand has been fair, supplies are difficult to find. Chinese on spot would be worth about 5s. 9d. to 6s. per lb., duty paid; Russian, if available, would be valued at about 6s. 6d. per lb., on spot.

CARDAMOMS.—In small inquiry, with values steady. Ceylon, spot, 3s. 6d. to 5s. per lb., according to quantity. Bombay seed, about 4s. 6d. per lb. Mangalore seed, about 4s. 3d. per lb. Aleppy greens, about 3s. 2d. per lb.

CASCARA SAGRADA.—A fair amount of inquiry continues to be received. Spot, 12s. upwards, according to holder and age of bark; shipment, about 100s. per cwt., c.i.f.

CASCARILLA.—Market is steady; spot demand limited. Silvery quill continues to be quoted at about 1s. 6d. per lb.; siftings, about 1s. 4d. per lb.

CLOVES.—Steady, with spot values fully maintained. Zanzibar, spot, 11½d. per lb. To arrive, sellers quote February shipment at 9½d. per lb., c.i.f. nominal. Madagascar, spot, 1½d., sellers, in bond.

COCHINEAL.—Spot values are maintained at the slightly higher levels recently recorded. Spot, blacks, about 2s. 7d.; greys, about 2s. 6d. per lb.

COLCHICUM.—No stocks of European root appear to be now in first hands. Some Indian material may be available shortly.

COLOCYNTH.—With demand quiet, the market is steady. Spot, fine-quality pulp, approximately 2s. per lb.; ordinary grades, about 1s. 7d. to 1s. 8d. per lb.

DAMIANA LEAVES.—Supplies are reported to be fair, and spot material would be worth about 1s. per lb.

DANDELION ROOT.—No quotation for imported is available. English-dug root is worth about 2s. per lb.

DERRIS ROOT.—The value of small supplies of root would be about 1s. 1d. to 1s. 2d. per lb., according to test.

ERGOT.—Spot values are steady; market quiet. Spanish-Portuguese, spot, about 8s. 9d. per lb., ex store; some slightly wormy is reported available at about 8s. per lb.; shipment, about 6s. 3d. to 6s. 6d. per lb., c.i.f.

GAMBoge.—Dealers report a routine inquiry, with spot value steady at about £26 per cwt.

GENTIAN.—There are no open-market quotations for this root.

GINGER.—Spot position firm, with values of all varieties maintained at the high levels recently recorded. West African, spot, 8s. per cwt. Jamaican, spot, small-medium, 90s. per cwt.; bold, in barrels, 120s. per cwt. Cochinchina, unwashed, spot, 7s. 6d. per cwt., sellers, sellers.

GUM ACACIA.—Market continues quiet; quotations are unchanged. Kordofan cleaned sorts, spot, about 90s. per cwt., ex store London; shipment, 47s. 6d. per cwt., c.i.f.

HENBANE.—English-grown leaf would be worth about 6s. 6d. per lb. Some Indian leaf is expected to arrive shortly.

IPPECACUANHA.—The price of Matto Grosso is reported easier, but firmer conditions obtain for Minas. Matto Grosso, spot, about 10s. to 20s. per lb., nominal, ex store; shipment, about 15s. per lb., c.i.f. Minas, firmer on spot at about 11s. per lb.; forward values remain at about 9s. per lb., c.i.f. Ext. IPPECAC, 110s., steady at the recent reduction to 26s. 6d. per lb., for minimum lots of twelve winchesters.

MENTHOL.—Continues firm and in fair demand. Chinese is now quoted on spot at 21s. upwards per lb.; forward values vary between 18s. and 19s. 3d. per lb., c.i.f., according to shipper. A few cases of Japanese are stated to be available on spot at about 22s. 6d. per lb., ex store, duty paid.

MERCURY.—The London spot quotation per bottle of 34·5 kilos is unchanged at £48, ex warehouse, without engagement and subject to confirmation.

OLIBANUM.—All grades are reported dearer on account of lack of supplies.

ORANGE PEEL.—Spot value of thin-cut would be approximately 3s. 4d. per lb., ex store. Bitter quarters are in short supply and would be worth about 1s. 8d. per lb., ex store.

PEPPERS.—Steady. Lampong, spot, 5½d. per lb., in bond, sellers; Telli-cherry, spot, 6d. Aleppy, spot, 6d.; to arrive, 36s. 6d. per cwt., c.i.f., sellers. White Muntok, spot, in bond, 8d.; shipment, February, unquoted.

PIMENTO.—Some inquiry has been experienced; values are steady. Spot, 1s. 5½d. per lb.; shipment, new-crop, February, 12s. per cwt., c.i.f., sellers.

QUASSIA CHIPS.—Small lots are quoted by dealers at about 30s. per cwt.

RHUBARB.—Inquiry for rough-round continues good. Ordinary quality, on spot, is in short supply at about 6s. 3d. upwards per lb.; shipment, unchanged at from 4s. 4d. to 4s. 6d. per lb., c.i.f. Shensi, spot, in moderate demand at from 7s. 9d. to 8s. per lb.

RUBBER.—The market opened fully steady and closed unchanged. Standard ribbed smoked sheet, spot, 12½d.; February, 12½d.; March, 12½d.; April-June, 12½d.; July-September, 12½d.

SENEGA.—Spot stocks are firmly held for about 5s. 3d. to 5s. 4½d. per lb. While there are no definite shipment offers, some business is reported done at 4s. 8d. to 4s. 9d. per lb., c.i.f.

SENNA.—Unchanged. Tinnevelly, market steady, spot supplies small. No. 1 leaves, 10d. per lb.; No. 2 leaves, 6½d.; No. 3 leaves, 5d. per lb. Hand-picked Tinnevelly pods, if available, 1s. to 1s. 3d. per lb.; manufacturing pods, 6d. to 7d. per lb. Alexandrian hand-picked pods, a few small lots at 5s. 6d. to 7s. 6d. per lb.

HELLAC.—The demand has been quiet this week, but values are steady. Standard TN orange, 87s. 6d. per cwt.; to arrive, 77s. 3d. per cwt., c.i.f. Pure button, spot, 115s., and fine orange, 110s. to 170s. per cwt.

TAMARINDS.—Spot values are unchanged, as follows: Barbados, 50s. per cwt.; Antigua, 48s. per cwt., ex store London. Supplies are limited.

TRAGACANTH.—Owing to the scarcity of finer grades of gum, values of medium grades are maintained at the higher levels recorded recently. No. 1, white, £110; No. 2, white, £90; No. 3, white, £80; pale leaf, £50; amber leaf, £32 10s.; red leaf, from £15; woody and hoggy, from £8 per cwt., ex store.

WAXES.—BEES'.—Markets continue steady. Spot, 200s.; in bond, 190s.; shipment, Dar-es-Salaam, 182s. 6d. per cwt., c.i.f. Japanese, first three brands, spot, duty paid, 137s.; in bond, 127s.; shipment, 115s., c.i.f.

CARNAUBA.—Fatty grey, dearer at 450s.; chalky grey, 435s.; Primeira, 520s.

Essential and Expressed Oils, etc.

RATHER quiet conditions continue to prevail in these markets, and most orders are for small quantities.

ALMOND.—English expressed quoted as follows: Spot, one-cwt. lots, 4s. 9d.; smaller quantities, up to 5s. 6d. per lb., ex store. Foreign bitter, if available, would be worth about 20s. per lb. on spot; English, about 35s. or more per lb.

ANISE (STAR).—Very firm. Spot, tins in cases, about 7s.; drums, about 6s. 9d. per lb., ex store; shipment, tins in cases, 5s.; drums, 4s. 9d. per lb., c.i.f.

AVOCADO PEAR.—Importers' quotations continue unchanged at about 55s. to 57s. per gall., delivered; small lots would be at higher prices.

BAY.—Occasional small business; market steady. Spot, about 6s. and 6s. 6d. per lb., ex store.

BERGAMOT.—Unaltered. Spot prices are a matter for negotiation; about 70s. per lb. would now be considered as a basis. British makers are offering artificial substitutes at attractive prices.

BOIS DE ROSE.—Steady, with little business being done. Spot, up to about 14s. per lb.; shipment, about 9s. 3d. per lb., c.i.f., in drums.

CAJUPUT.—Continues firm, with fair inquiry. The spot value would be approximately 5s. 6d. to 6s. per lb., according to quantity.

CANANGA.—A small business is being done in limited quantities on spot at about 19s. per lb.

CASSIA.—Values are firm. Spot, from about 9s. upwards per lb.; shipment if obtainable, approximately 7s. per lb., c.i.f.

CITRONELLA.—Inquiry is still rather slow, but quoted prices are unchanged. Ceylon, spot, quoted at about 2s. 6d. per lb., in drums; small lots, up to 3s. per lb.; shipment, firm at about 2s. per lb., c.i.f. Java, spot, about 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

CLOVE.—Business has been rather quiet, but the price is steady. Imported: spot, in drums, about 6s. 6d. to 6s. 9d. upwards per lb., if available. English: quoted unchanged at about 7s. 5d. to 7s. 11d. per lb., according to quantity.

EUCALYPTUS.—Remains quiet; values are unchanged. Spot, from 4s. to 4s. 6d. per lb. for 70 to 75 per cent. oil, according to holder, and from 4s. 6d. to 4s. 9d. for 80 to 85 per cent.; shipment continues nominal.

GERANIUM.—Firm. Bourbon and Algerian both quoted at about 50s. per lb.

GRAPEFRUIT.—Spot quotations for genuine Californian continue at between 14s. 6d. and 15s. per lb. Genuine Florida would be worth about 11s. 6d. per lb.

LEMON.—Quotations for Californian distilled are unaltered at about 10s. per lb., nominal; cold-pressed might be obtained on the basis of 3 dollars 25 cents per lb., cost and freight. The position of Sicilian hand-pressed is unaltered; no quotations are available, and spot prices would be a matter for negotiation. British makers offer artificial substitutes at attractive prices.

LEMONGRASS.—Continues firm. Spot, approximately 5s. to 5s. 6d. per lb.; shipment, about 4s. 3d. per lb., c.i.f.

LINSEED.—The controlled price for large bulk quantities of crude, naked ex works, is at the recent reduction to £41 10s. per ton. Distributors' prices for ordinary quantities would be at higher figures.

OLIVE.—The Ministry of Food controlled price to importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, in gallon tins, carriage paid, range from 12s. 6d. to 13s. 6d. per gall., as to quantity.

ORANGE.—French Guinea is quoted on spot at approximately 10s. 6d. to 11s. per lb. Rhodesian is now valued at about 10s. per lb. Californian is quoted in sterling at 5s. per lb., in small drums, ex store, duty paid, limited supplies only being available. Shipment can be effected by transit overland to New York at an extra charge of five cents per lb.

PALMAROSA.—Spot quotations continue nominal at about 15s. 6d. per lb., ex store; shipment offers for new-crop are reported to be in the region of 12s. 6d. per lb., c.i.f.

PEPPERMINT.—Chinese continues in good inquiry, but spot stocks are low; spot quotations are at about 11s. to 11s. 6d. per lb. Shipment, about 7s. to 7s. 3d. per lb., c.i.f.; up to 8s. 9d. per lb. is reported paid for material afloat, seller's licence. American natural oil is very firm on spot at between 18s. and 20s. per lb., ex store; shipment, drums, about 15s. 3d., and tins in cases, about 15s. 6d. per lb., c.i.f.

VETIVERT.—Inquiry small; values steady. Spot, Bourbon, about 50s. per lb.; Java, about 40s. per lb., ex store.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

British Export Trade

SIR,—The suggestion put forward by Mr. Adams at a recent meeting of the Institute of Export (*C. & D.*, January 18, p. 31), for increasing our exports by means of co-operative selling is, to my mind, an excellent one. How often have we heard adverse comments from well-established overseas firms dealing in chemicals, drugs and druggists' sundries the ineffectual methods our manufacturers and exporters have employed in the past in an endeavour to secure, or even to keep, export markets. Many heads of firms of repute handling big business in overseas countries in various parts of the world have at times complained to me of money wasted and trade lost to Britain for lack of foresight in choosing the right sort of agent. It appears that haphazard methods of selecting by correspondence, or otherwise, have often been adopted, the exporter having no clear conception of the needs of the community to be served or the kind of agent best suited for his purpose. Consequently the agent selected was, as often as not, the keeper of a general store with no special knowledge of chemists' goods. Thus lamentable results in British trade and a probable increase in business to a more enterprising foreign exporter. Moreover, the establishment of an overseas agent for a specific article—such as a pharmaceutical product or a toilet speciality—is a somewhat expensive business and only large firms with a multitude of lines can afford to branch out in that way. By the co-operative scheme, it seems to me, that these dangers and difficulties can be largely overcome and overseas selling made more stable. An active representative of established repute could sell very effectively for a dozen manufacturers of non-competitive articles and the organisation would ensure that his capabilities and *bona-fides* were carefully verified. Thus the "average manufacturer" (as your report so happily puts it) would also have a chance of developing his export items without undue risk and the wastage for the big man would be eliminated. Of course, this type of business co-operation has been carried out by German competitors for years and the moment appears to be especially opportune for applying the principle to British drug, chemical and allied industries.

Yours faithfully,

WILLIAM CHALMERS.

Drug Trade Advisory Committee

SIR,—At a meeting held recently in London the speaker, who gave an address on "Drug Supplies in War-time" (*C. & D.*, January 25, p. 5) suggested that "we ought to have an advisory committee for the drug trade." Such a body, it was suggested, should be a permanent organisation and should be thoroughly representative of all sections of the trade, and its chief purpose would be to advise Government departments. The idea is bold in its conception and it might seem to indicate the ideal method of *liaison* between Whitehall and the trade and industry. Supporters might also claim that the functions of such a committee might in time extend to co-ordinating production and distribution thus avoiding alleged wasteful duplication of effort in the trade. Such a committee, being a permanent body, would need full-time permanent secretaries and staff and it would require headquarters in keeping with the dignity of the trade. Doubtless it would quickly spread its wings in the form of many subcommittees and sections and, it is to be feared, set up a grand council. Even so, I am a little doubtful whether the Ministries would be impressed sufficiently to induce them to deviate from the usual practice of "noting and filing for future reference" any recommendations that might be passed to them by "the voice of the trade." Where are the experts to be found with time to spare the busy days to sit on any more committees and subcommittees? With all its branches and ramifications to be given representation, would such a committee be thoroughly unwieldy in numbers, with each member knowledgeable in his own particular subject and no one so far as expert opinion goes? Like the well-known moribund board of directors, individually "they could do nothing" and, collectively, they would, after many meetings, finally decide "that nothing could be done." Every branch of the trade, manufacturing, wholesale and retail, professional and commercial has its own society today. This composite and all-enveloping body now proposed would make many of the useful organisations obsolete. There are some who subscribe to the view that there are already far too many trade organisations and committees, particularly men engaged in the not unimportant job of making their businesses pay their way. "Cut the cackle and come to the 'osse' is, I believe, their maxim.

REDACT (25/1).

Appreciations

We extend our heartiest congratulations on a really good performance in producing such an excellent *Diary* in spite of the many obstacles you must have encountered.—J.D.S. (23/1).

Incidentally, I wish to say that I greatly admire your editorial publishing staffs for keeping up the paper with such an unrivaled excellence, and also for the very prompt way the journal reaches every week.—H.R.N. (23/1).

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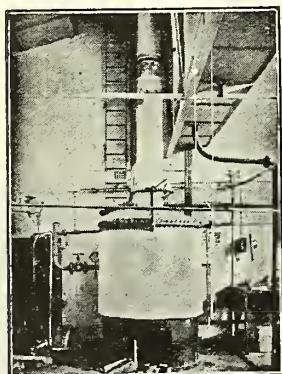
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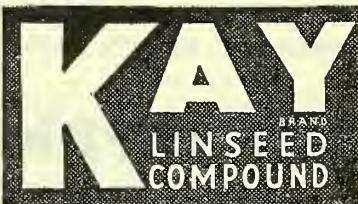
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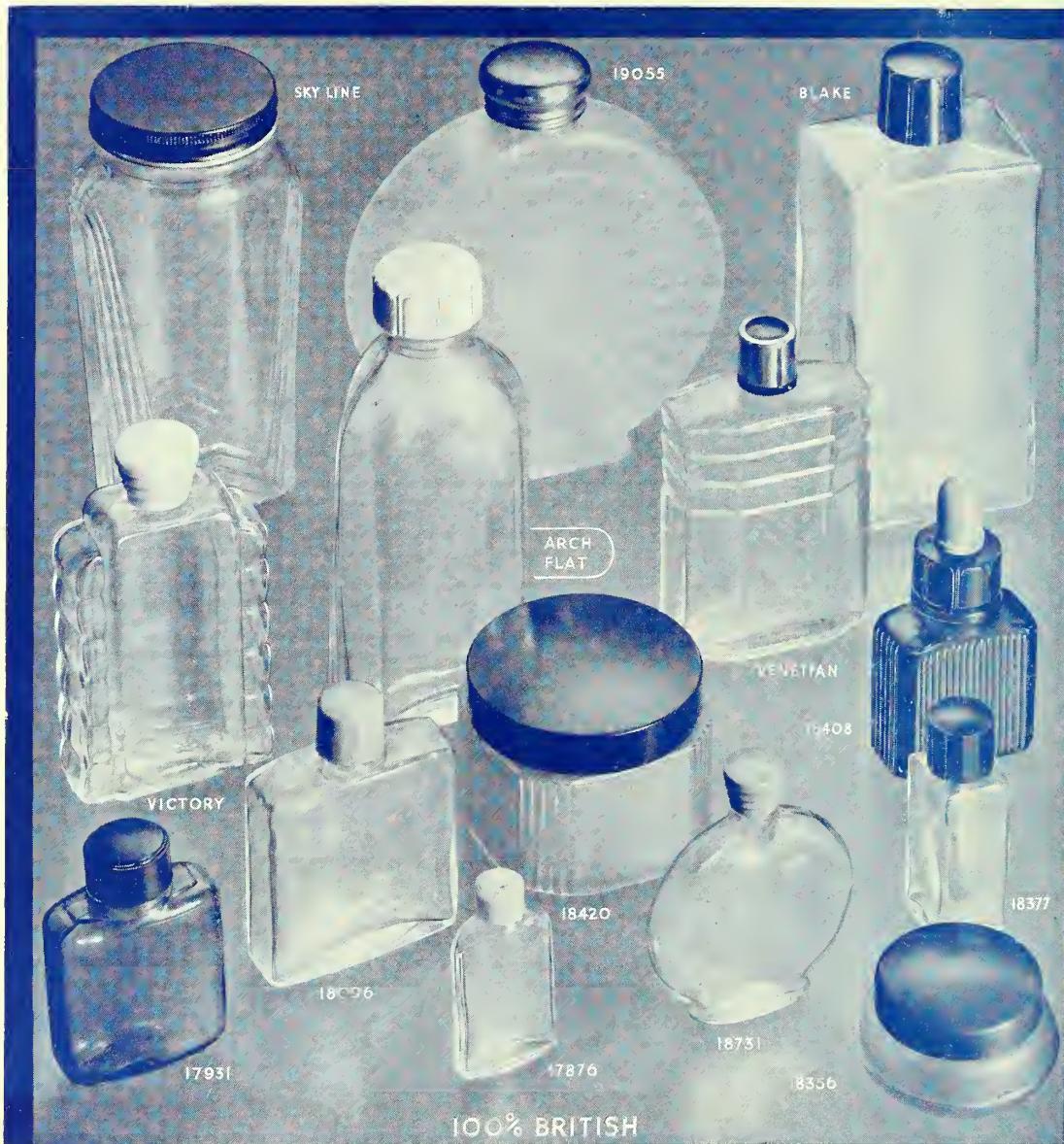
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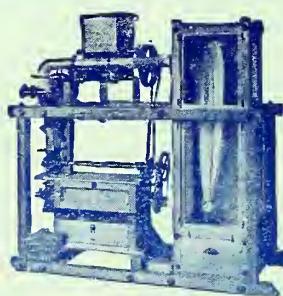
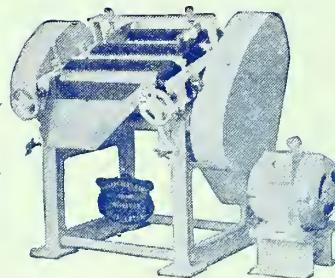
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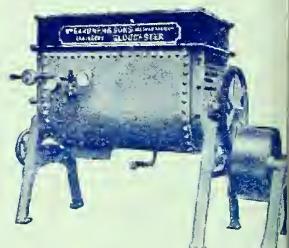


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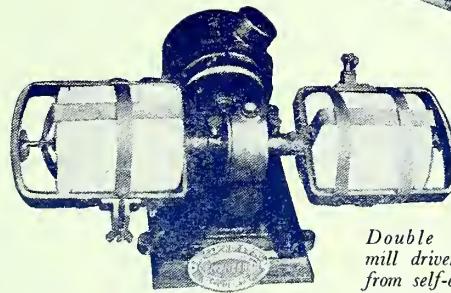
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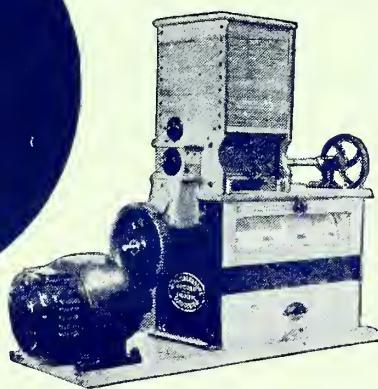
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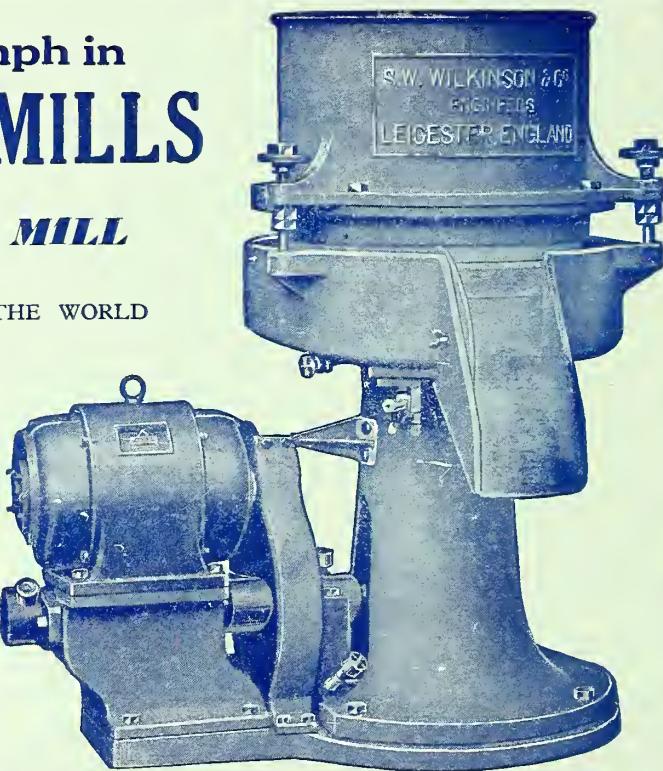
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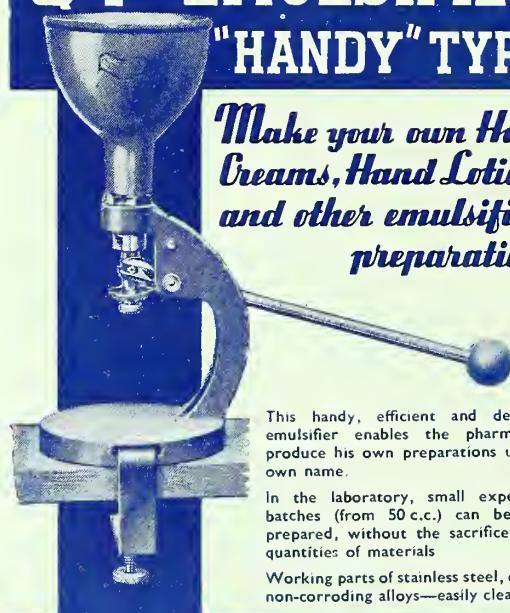
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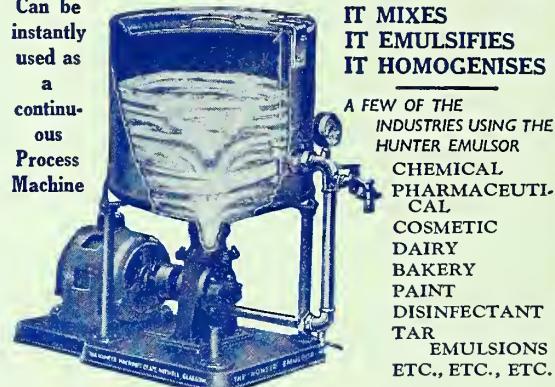
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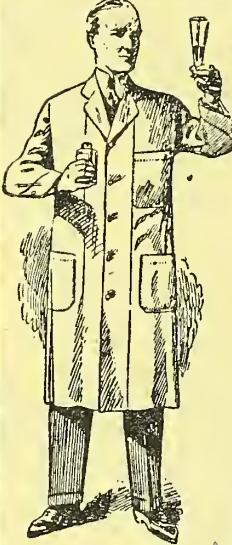
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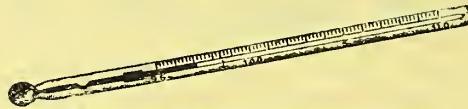
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1941

IMPORTANT TO SUPPLEMENT ADVERTISERS

Instructions for supplement advertising are now accepted in London and at Bath. London press times have been advanced to first post **WEDNESDAY** morning of week of issue but instructions will still be accepted up to first post **THURSDAY** morning if sent to Bath.

THIS IS THE TARIFF

AGENCIES,
GOODS FOR SALE,
PARTNERSHIPS,
PATENTS,
PREMISES TO LET,
FOR SALE or WANTED

7/6 for 36 words or less,
2d. for every additional word.

SITUATIONS WANTED { 2/6 for 18 words or less, 1d. for every additional word.

Advertisements received after these times will not be inserted until the following week. All advertisements should be prepaid and to avoid disappointment send your instructions as early in the week as possible to

THE CHEMIST AND DRUGGIST, THE PITMAN PRESS, BATH
or to London Office at 28 Essex Street, Strand, London, W.C.2.

LEGAL NOTICES,
SALE BY AUCTION,
TENDERS—AND ALL
SPECIALY SPACED
ANNOUNCEMENTS

1/9 per nonpareil line.
(12 lines = 1 inch, single column.)

BUSINESSES for
DISPOSAL
BUSINESSES WANTED
SITUATIONS OPEN

7/6 for 40 words or less,
2d. for every additional word.

1/- EXTRA

EXCHANGE COLUMN { 2d. per word
(for Retailers, etc.) { minimum 3/-

MISCELLANEOUS SECTION
(for Wholesalers, etc.),
for odd and second-hand lots.

12/6 for 60 words or less,
1/- for every additional 10 words or less.

SACCHARIN

Will the thousands of customers who, during the past few days, have sent us cash with order for Full Strength and Half Strength Saccharin tablets accept this intimation that delivery will be made as expeditiously as possible, but that there will necessarily be considerable delay. Will the trade generally observe that our total output of Saccharin Tablets for the month of February is now sold and we are not anxious to receive orders for March delivery until a later date. Such March orders, when sent to us, must be accompanied by cash and must not exceed 3 dozen 100's, £1 6s. 1d. OR 4,000 bulk, £1 5s. 8d. in the case of Full Strength Tablets, or 6,000 bulk, £1 1s. 8d. for Half Strength Tablets.

W. B. Cartwright Ltd., Rawdon, Leeds.

If the **Limitation of Supplies Order** and the **Purchase Tax** compel you to pack your "own-name" products you should consult these world-renowned Reference Books. They contain thousands of well-tested formulas and are just what you require.

PHARMACEUTICAL FORMULAS (P.F., Vol. I)

Price 15s. by post 15/9

The tenth edition of this, the most complete pharmaceutical formulary in the English language, is devoted to the official and semi-official preparations of practically every country in the world. This volume (published 1929) contains 1146 pages. Invaluable to the busy pharmacist. One of the most useful and handiest reference books in the trade.

PHARMACEUTICAL FORMULAS (P.F., Vol. II)

Price 15s. by post 15/9

Published 1934. Supplementary to Vol. I, and known as "The Chemist's Recipe Book." Contains formulas for adhesives, beverages, cleaning materials, culinary and household requisites, horticultural and agricultural preparations, inks, lozenges, perfumes, photographic preparations, polishes, soaps, toilet articles, varnishes, veterinary preparations, etc., including numerous descriptions of practical methods employed in their manufacture, and other information of use to pharmacists and manufacturers. Over 1000 pages.

These books are real profit makers. Order your copies NOW at the present "pre-war" prices.

You can order through your usual Wholesaler or direct from
The Publisher

THE CHEMIST & DRUGGIST
THE PITMAN PRESS, BATH

OPTICAL TUITION

FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations

Particulars:-

C.A. SCURR, F.S.M.O., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.

50 HIGH STREET, BARNET, LONDON, N.

PREMISES WANTED

GOVERNMENT contractors engaged on light manufacturing require modern ground-floor premises six to fifteen thousand sq. ft. suitable for a factory. Existing staff will receive consideration for training. Central heating, electric power and good lavatory accommodation essential. Principals only need apply to the Secretary, M.R.S., Ltd., 22 Queen Street, E.C.4.

BUSINESS WANTED

REQUIRED to Purchase, small Manufacturing Chemist, with Tabletting Machines, replicas, in confidence, to Littlebury & Osborne, 12 Holborn Viaduct, E.C.1.

REPLIES FROM ADVERTISERS

THE Committee of the Scunthorpe Co-operative Society, Ltd., desire to thank applicants for the position of Qualified Pharmacy Manager, and to state that the vacancy has now been filled.

SITUATIONS OPEN

RETAIL (HOME)

CITY OF MANCHESTER

WITHTINGTON HOSPITAL (1,150 BEDS)
AND INSTITUTION (1,200 BEDS)

Applications are invited for the post of Chief Pharmacist (non-resident) at Withington Hospital and Institution, Nell Lane, West Didsbury, Manchester, 20.

Candidates must possess the qualification of "Pharmaceutical Chemist" as recognised by the Pharmaceutical Society of Great Britain and have had wide experience in the work of a hospital dispensary.

Salary £505 to £535 per annum in accordance with the terms and conditions of the Manchester Corporation Grading Scheme.

Full information and forms of application may be had from the Medical Officer of Health, Hospitals Administration Section, P.O. Box 399, Town Hall, Manchester, 2, by whom all applications must be received not later than February 15, 1941.

Canvassing in any form is prohibited.

R. H. ADCOCK,
Town Clerk.

Town Hall,
Manchester, 2.
January 27, 1941.

ASSISTANT (unqualified), male or female, for dispensing and general duties. Temporary post, may be permanency. Age, height, experience and salary required; outdoors. References to Gwillim, Chemist, Brecon.

JUNIOR Assistant required immediately for good-class business in Reception Area. Must be experienced in Window Dressing and Counter. State age, experience, salary required and send copies of testimonials. W. Smith & Co., Ltd., High Street, Abingdon, Nr. Oxford.

QUALIFIED Lady Dispenser wanted by partnership (Drs. MacLeod and Symous, Loughborough, Leics), knowledge of typing and shorthand a recommendation. House available. Give full particulars of experience and state salary expected. Recent photo if available.

QUALIFIED man required, over 25 years old. Optics an advantage but not essential, salary £4 10s. weekly, easy hours. Apply, in writing, to C. Breese, M.P.S., 119 Mitcham Lane, Streatham, London, S.W.16.

WANTED immediately, Junior Assistant, Unqualified. Reply, stating age, experience and salary required, to W. Bates & Co., Ltd., 25 Oxford Street, Southampton.

WHOLESALE

YORKSHIRE.—Manufacturing Chemists require Qualified Pharmacist as Representative to call on Medical Profession and retail trade. Either sex. Apply, with photograph, stating age, experience and salary required, 376/746, London Office of this Paper.

YORKSHIRE house requires Assistant Tablet Makor Knowledge of granulating, etc. Trustworthy, able to attend Wilkinson and Colton machines. Apply H. H. F., CDB/349, London Office of this Paper.

CLERK, male or female, required for Wholesale Invoice Dept. A typist, able to control Junior Staff, and with previous experience of this work preferred, but not essential. The position is a progressive permanency. Apply to Managing Director, Hedges (Chemists), Ltd., Dale End, Birmingham, 4. COUNTER Men required, C. R. Harker, Stagg & Morgan, Ltd., Emmott Street, Mile End, E.1.

PERFUMERY Factory Female Charge Hand required for North-West London, capable of controlling a small female staff and co-operating with management; experience in mixing face powders, preparing perfumes and able to understand formulae necessary; a girl about 25 preferred; scope for advancement; apply, stating age, experience and wages required, to 375/725, London Office of this Paper.

WANTED, by small South County firm, Man or Woman with practical skill and experience in the manufacture of Galenicals and Modern Cosmetics. Apply, giving full particulars of experience and capabilities, to 376/748, London Office of this Paper.

WANTED, a man over 30 who has a good general knowledge of Pharmaceutical products and foodstuffs and with experience in Drug grinding, to assist Buyer-Manager in a modern Food Factory, where the prospects are good. Apply, with copies only of recent testimonials, and stating salary required, to 376/747, London Office of this Paper.

WORKS Chemist with practical experience in inorganic chemistry, more especially chlorine products, required for London Laboratory of well-known firm. Knowledge of manufacture of toothpaste, ointments, toilet articles an advantage. Applicants should be ineligible for military service. Apply stating full details of qualifications and experience, age, and salary required to CDB/346, London Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

EXPERIENCED Pharmacist (35) requires Managership, Bucks, Berks, Surrey or North-west Suburbs; accommodation optional. Lambert, 3 Greenhill Road, Harrow.

LADY Assistant would take Saturday or Sunday duties. Experienced, Retail and Dispensing. 61 Flint Street, Leicester.

QUALIFIED (27), tall, energetic, 7 years' experience Windsor and Slough, requires change. Would welcome optical experience. CDB/344, London Office of this Paper.

QUALIFIED Chemist (26) seeks position, Northern Ireland preferred but not essential, city and provincial experience, excellent references. Hughes, 7 Lower English Street, Armagh, N. Ireland.

UNQUALIFIED with good experience, active, married, age 44, desirous change, country preferred; permanency, three guineas. 376/742, London Office of this Paper.

UNQUALIFIED Assistant, experienced dispensing, counter work, photographic and window display. Excellent references. Married. Chester or North Wales. CDB/350, London Office of this Paper.

LOCUMS SEEKING ENGAGEMENT

EXPERIENCED Qualified Locum. Recommended, moderate. Any part or period. Harris, 6 College Road, New Oscott, Sutton Coldfield.

WHOLESALE

EXPORT Manager, aged 32, world-wide experience, languages, successful record, including pioneer work, seeks position greater scope. Apply 376/739, London Office of this Paper.

FACTORY or Warehouse Manager. Advertiser with wide office and works experience seeks responsible position in London. Moderate salary. 376/752, London Office of this Paper.

FRIENDLY Alien (42), former cosmetic and soap factory owner for over twenty years, expert, seeks post as sales-representative, organiser, buyer, advertiser, supervisor or assistant in chem. laboratory or factory. 376/745, London Office of this Paper.

WANTED

CITRIC ACID.—We are regular buyers of any quantities of 1 cwt. and over of Citric Acid Powder, B.P. and Fine Granular B.P. Write to 376/750, London Office of this Paper.

OILS and Fats of all descriptions wanted, also Glycerine (refined and unrefined) and stearates. Write, 7 Addison Road, London, W.14.

SACCHARIN 550. We are buyers of 5 lb. lots. Good prices paid. Write to 376/751, London Office of this Paper.

TRAVELLER wants Morris 10, 1937, '38 or '39. Must be in good condition. State particulars of year, mileage, price, etc. Also Portable Typewriter. State make, condition and price. CDB/341, London Office of this Paper.

WANTED. Olive Oil Bulk—any quantity. Also Toilet Goods—Branded Lines (Section 16). Immediate payment. Write: Manager, Drug Department, Newcastle Co-operative Society, Ltd., 117 Newgate Street, Newcastle-upon-Tyne.

WHOLESALE MERCHANTS CHEMISTS' SUNDRIES would like to receive offers from manufacturers of the following goods: toilet brushware, hot water bottles, washing squares, baby pants, bath caps, sponge bags, sunglasses, and any goods not controlled under the Limitation of Supplies Order. 376/743, London Office of this Paper.

BUSINESSES FOR DISPOSAL

BLACKPOOL.—Chemist's lock-up shop, large residential district. Rent 24s. per week, clear. Apply 376/744, London Office of this Paper.

D RUG STORE, established 20 years, ill-health reason for sale. Double-fronted shop, excellent position on bus stop. All agencies; good connexion; splendid scope for N.H.I., giving wonderful opportunity for M.P.S. A genuine proposition; no agents. CDB/345, London Office of this Paper.

MISCELLANEOUS

LIMITATION Home Trade, Class 16. Rouse Bros. (London), Ltd., 61 Charlotte Street, London, W.1, require quotas, please state amounts and terms.

LIMITATION of Supplies Order, Class 16. Quota required by manufacturers of toilet preparations—generous discount offered. State amount available and terms required. Apply 376/756, London Office of this Paper.

LATE NEWS

Photography Permit Office.—The Photography Permit Office has removed to 35 Queen's Gate, London, S.W.7. Telephone: Western 4144. Hours: 10 a.m. to 1 p.m.; 2.30 p.m. to 4.30 p.m.

Business Change.—Mr. Lionel Ash, M.P.S., F.B.O.A., has removed his business to Church Bridge, Grasmere, Westmorland, to which address all accounts and business communications should be sent.

Protection of Factory Workers in Northern Ireland.—The Factories (Glass Protection) Order has been extended to apply to Northern Ireland. Licences issued under the Limitation of Supplies Orders to enable occupiers of affected factories to obtain supplies of the textile goods required for compliance with the Order, have also been extended to Northern Ireland. The Orders (S.R. & O., 1941, Nos. 104 and 105) may be obtained from H.M. Stationery Office.

Proprietary Articles Trade Association

Additions and Alterations to Protected List.—(Unless otherwise stated, prices include purchase tax.) *T. W. Culmer & Sons, Ltd.*, Culmank shaving brushes: Junior, 2s. 9d.; 24s. doz. net; Chum, 5s.; 44s. doz. net; Plus, 5s. 9d.; 5os. doz. net; Senior, 6s. 11d.; os. doz. net. *The British Drug Houses, Ltd.*—The following articles are exempt from purchase tax: Radio-malt, 2s.; 16s. doz.; 3s. 6d.; 28s. doz.; 6s. 6d.; 52s. doz.; Radiostoleum liquid, 2s.; 16s. doz.; 20s. doz.; 100c.c.; 9s.; 72s. doz.; Radiostoleum capsules, 2s. 5s.; 2s.; 10s. doz.; 50s.; 3s. 8d.; 29s. doz. *Middlesex Laboratory of Glandular Research, Ltd.*—Manufacturers state that the following articles are exempt from purchase tax: Juvigold brand gland tonic (liquid and tablets); Enigengland gland tablette; Prefacrin; Middlesex sterility gland tabletta. *Oppenheimer Sons & Co., Ltd.*—Manufacturers advise that Robolin is exempt from purchase tax. *Glovo Laboratories, Ltd.*—Manufacturers indicate that the following articles were exempt from purchase tax as from January 27: Adesolin capsules, liquid and emulsion; Dekadexolin ampoules; Ostelin liquid and emulsion; high-potency Ostelin tablets; Preplain ampoules and capsules; Vitoclin capsules; Kasilon ampoules and liquid. The following lines are still subject to tax: Glucosmalt; Ostomalt and Ostelin tablets.

Correction.—*Airse Sales Co.* (Agents: *J. C. Gambles & Co., Ltd.*)—The following articles (recently notified as dations) remain in protected list: Vick brand vapour rub (stamped pack); Vick-Vatronal.

Detainers.—*T. W. Culmer & Sons, Ltd.*—Culmank shaving brushes: Weekender, Tonsor, Prince, Sovereign and Traveller; cream Beetle shaving brush drier, Mc Clinton's, Ltd.—All specialties.

Trade Report

SEEDS.—**ANISE.**—Spot, Bulgarian, 125s., duty paid. **CANARY.**—No price has been available for some time past as no offerings are being made. It is reported that no quantity of note will be allocated during the war. **CARAWAY.**—Spot, Dutch, 40s., duty paid. **COMMANDER.**—Spot, Morocco, quoted at 120s., duty paid, ex store London or Liverpool. **INDIAN.** for shipment, buyers' licence, 45s.; c.i.f. and on sellers' licence, 60s., c.i.f. (subject to freight being available). **CRIMSON.**—Spot, Malta, 140s., duty free; Morocco, 140s., duty paid. **DILL.**—Spot, India, 11 per cent., 70s., duty free, ex store Liverpool. **FENNEL.**—Spot, Morocco, 40s., duty paid, ex store London or Liverpool. **GREEK.**—Spot, Morocco, 40s., duty paid, ex store London or Liverpool. **PENNY.**—Spot, Indian, 57s. 6d., duty free; Iran, 55s., duty paid. **MUSTARD.**—Spot, English, 75s. to 87s. 6d., according to quality.

TURMERIC.—Spot, Madras and Rajapore finger, quoted at 47s. 6d.; a little business passing at this figure.

EXCHANGE COLUMN**WANTED**

WE will exchange Saccharin Tablets for 550 Saccharin of Lactose. Apply, CDB/324, London Office of this Paper.

AGENCIES

CHEMISTS' Sundries. Wanted agency for the sale of Chemists' Sundries throughout Scotland. Over military age. Two cars available. Old-established connexion. 376/755, London Office of this Paper.

DRESSINGS and Plasters. Agents with old-established connexion in Scotland require agency for surgical dressings and allied lines. 376/754, London Office of this Paper.

MANUFACTURING Chemists require firm with efficient sales organisation calling upon doctors, hospitals, veterinary surgeons and dentists to distribute their well-known specialities on a sole selling agency basis. Reply to "S," care of W. H. Smith & Son, Ltd., 82 Walm Lane, N.W.2.

WELL-KNOWN Manufacturer's Agent with 20 years' connexion and experience desires additional agency for sale of soaps throughout Scotland. Full particulars to 376/753, London Office of this Paper.

WAR-TIME UNEMPLOYMENT SITUATIONS WANTED**RETAIL (HOME)**

LADY Dispenser (Hall) requires post. Good experience. South-central England or Home Counties preferred. Apply Dispenser, 84 Embleton Road, Lewisham, S.E.13.

WHOLESALE

REPRESENTATIVE, disengaged owing to enemy action. Have represented well-known London firm in the Midlands and Eastern Counties ground in all sides of pharmacy. Over military age. Car driver. Excellent references. Twenty years' experience. "Rheo," "St. Moritz," Wellington Road, Mablethorpe, Lincs.

UNQUALIFIED (23½), bombed out, seeks responsible post as Dispenser or Warehouse Assistant. Experience of both. Lately charge hand in drug warehouse. Exempt military service. Bowdren, 236 Burley Road, Leeds, 4.

(*War-time Unemployment continued overleaf*)

WAR-TIME UNEMPLOYMENT SITUATIONS WANTED

Advertisers in this Section should advise us immediately employment has been secured.

RETAIL

CHEMIST (45) disengaged through enemy action. 20 years good all-round London and Provincial experience. Manager or Assistant. Go anywhere. CDB/329, London Office of this Paper.

DISPENSER-BOOKKEEPER requires post with doctor or in hospital. Good experience and testimonials. Dispenser, 30 Woodland Way, Mill Hill, N.W.7.

LADY Dispenser (Hall) requires post, Doctor, Hospital or Institution. Experienced. Apply, Dispenser, 19 Abbey View Road, St. Albans, Herts.

MANAGER (Drug Stores), Senior experienced man; anywhere; present situation lost solely through war conditions in London; satisfactory reference. CDB/347, London Office of this Paper.

PHARMACIST (35), married, last situation 4 years, desires permanency. Good London and Provincial experience. Conscientious and reliable. "Chemist," 5 Henconner Drive, Leeds, 7.

PART-TIME Lady Assistant, Dispenser, seeks post. Hall Certificate, experienced. Brighton or District. Good worker. 89 Ditchling Road, Brighton.

WHOLESALE

A REPRESENTATIVE, aged 30, disengaged owing to enemy action; exempt military service; highest references; splendid connexion in London and eight counties; very well known to Chemists, Hairdressers and Stores; able to drive car; seven years' experience. Write, "W," 9 Warkworth Gardens, Osterley, Middx.

A WELL-KNOWN REPRESENTATIVE, covering Warwickshire, Staffordshire and Worcestershire; many years on this ground. Good references. Toilets and Chemists' Goods. On commission basis. CDB/348, London Office of this Paper.

CHEMIST (42), wide experience, Analytical and Works, Foods and Drugs, Pharmaceuticals, Oils, etc. Position of responsibility required. CDB/343, London Office of this Paper.

EXPERIENCED Sugar-coated, disengaged, also Pill-maker and Pearl-coater; 30 years' experience. CDB/307, London Office of this Paper.

FRIENDLY alien (46), unfit for military service, desires post as Assistant in chem. pharm. laboratory or factory research and bacteriological routine, tablet making, supervisor packing department, etc.; central-registered with the Ministry of Labour. S. Tuckner, 43 Murray Street, Salford, 7, Manchester.

LADY Dispenser, all-round experience, Hall qualification, would assist Dr., Chemist, or an Institution. Part-time Dispensing, Stock, etc. Write, 73 Harborough Road, Streatham, S.W.16.

MEDICAL Propagandist (33), disengaged owing to enemy action, seeks post with firm of repute. Successfully represented well-known house for 7 years. Excellent references. J. R. Hughes, 71 Coledale Drive, Stanmore, Middx.

PHARMACEUTICAL Chemist (40) with 24 years' wholesale experience in manufacturing and executive positions, desires post in similar capacity. Present firm's activities entirely suspended due to enemy action. CDB/317, London Office of this Paper.

R EPRESENTATIVE (42), disengaged owing to enemy action. Eighteen years' experience calling on Chemists, Hairdressers and Store (Wholesale and Retail). Lancashire, Cheshire and North Wales. Highest credentials. CDB/342, London Office of this Paper.

R EPRESENTATIVE, over military age, disengaged owing to Limitation of Supplies Order, 16 years' perfumery, excellent London connexion, wholesale and retail. Highest reference. 375/723, London Office of this Paper.

R EPRESENTATIVE, 20 years' experience on Scottish territory. Firm destroyed by enemy action. Age 44; exempt from military service; car driver; over 1,000 open a/cs.; can successfully handle proprietary lines, packed goods and drugs. R. E. Drayton, 576 Paisley Road West, Glasgow, S.W.1.

R EPRESENTATIVE (55), disengaged owing to enemy action. Thirty years' experience calling Chemists, Hairdressers, Stores, and Wholesale. London, South Coast, and Home Counties. Very active, car driver. CDB/303, London Office of this Paper.

R EPRESENTATIVE (49), active, disengaged when required owing to war. Twelve years present firm; well known to Chemists and Stores North of Thames. Wholesale and Retail. Highest credentials. CDB/302, London Office of this Paper.

R EPRESENTATIVE (young), 7 years with present House (bombed out), seeks position. Excellent connexion S. Wales, Lanes, Yorks, N.W. Counties, etc. Drugs, Sundries, Toilets, etc. Can commence immediately. CDB/310, London Office of this Paper.

R EPRESENTATIVE, over military age, disengaged owing to enemy action, has successfully represented well-known firm in South Western Counties for twenty years. Has confidence of all Chemists, Stores, etc.; Perfumery, Cosmetics, Sundries, Packed Goods. Car driver. Highest credentials. H. Russ, "Green Acres," 9 Brickhouse Hill, Tiverton, Devon.

R EPRESENTATIVE.—Twenty years' experience on the road. East Anglia, South Midlands, etc., calling on Chemists, Hairdressers, and Stores. Disengaged owing to enemy action. Excellent reference. Car driver. Apply CDB/318, London Office of this Paper.

SALES Representative (42) disengaged owing to Limitation of Supplies Order, has established connexion among Chemists and Stores in London and district; 11 years with last firm; 21 years' sales experience. Excellent references. Car driver. CDB/308, London Office of this Paper.

WELL-KNOWN, successful Midlands, Yorkshire Representative, 16 years, desires post. Ineligible military services, experienced all requirements for Pharmacists, Hairdressers. Quota compelled late firm to suspend representation. Own car. Salary, expenses. CDB/306, London Office of this Paper.

WAR DAMAGE

Professionally prepared and certified Stock Inventories and Valuations are advisable under normal conditions, but in these days they are a common-sense precaution.

If you are not possessed of same, or an up-to-date efficient method of daily or weekly Stock Reconciliation, apply immediately for Particulars and Terms.

The Association of Manufacturing Chemists Limited

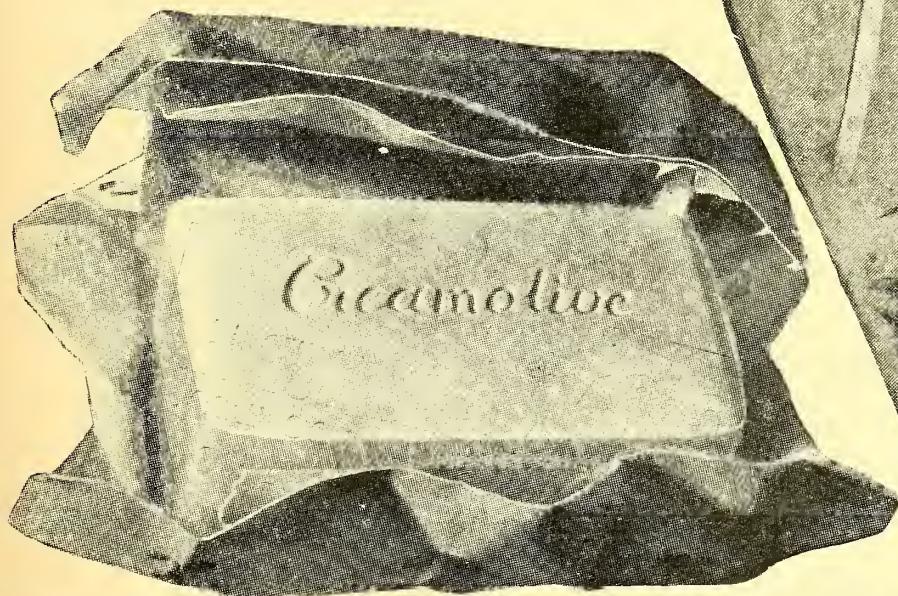
Business Agency & Valuation Departments

**Kimberley House,
14 Holborn Viaduct,
E.C.I.**

or
**5 Rumford Place,
LIVERPOOL, 3**

Instant Approval

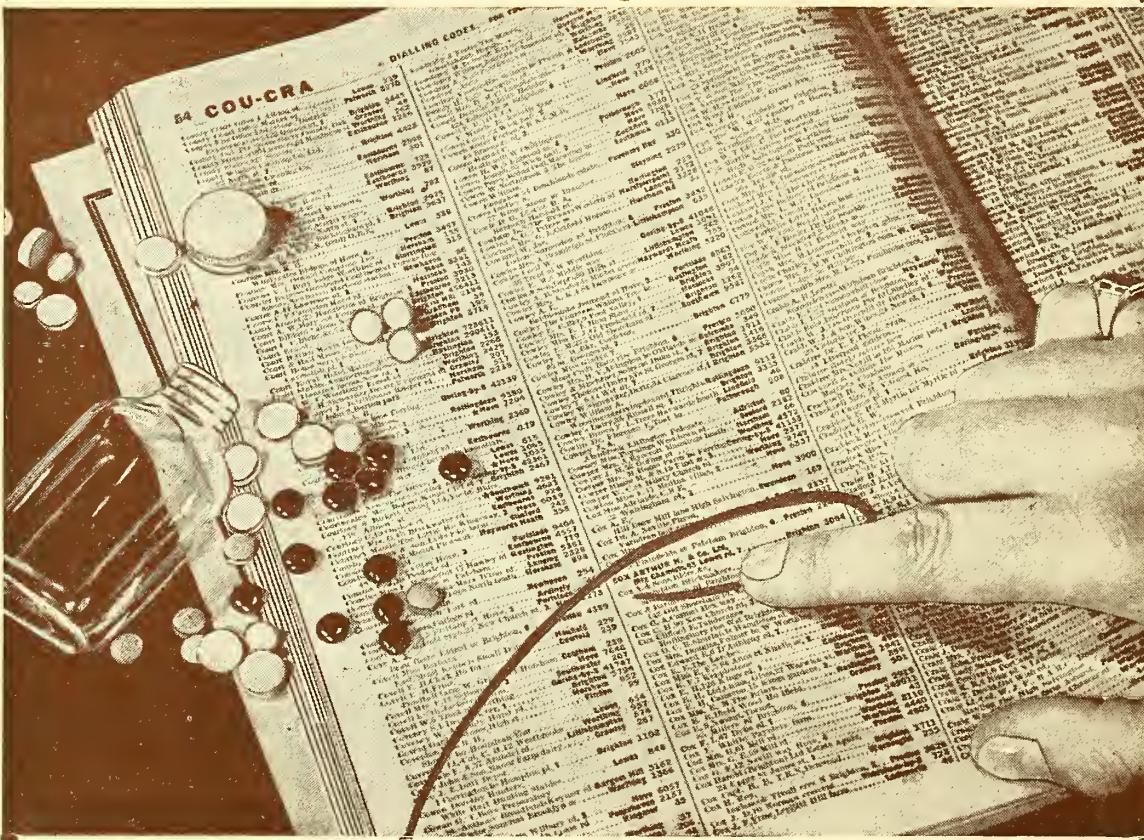
"from women everywhere. Because Creamolive is so gentle with tender skins—its rich creamy lather so very refreshing. Every day the demand for Creamolive increases. Are you displaying this popular priced Beauty Soap?"



CUSSONS SONS & CO. LTD. KERSAL VALE, MANCHESTER &
8-9 PADDINGTON STREET, W.I.

Stop searching!

IF IT'S PILLS OR TABLETS...



CONSULT THE SPECIALISTS

BULK
OR
PACKED.
COATED
OR
UNCOATED.
STANDARD
OR PRIVATE
FORMULÆ.



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& CO. LTD.**
BRIGHTON · ENGLAND ·
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MANUFACTURING CHEMISTS FOR OVER A CENTURY!

